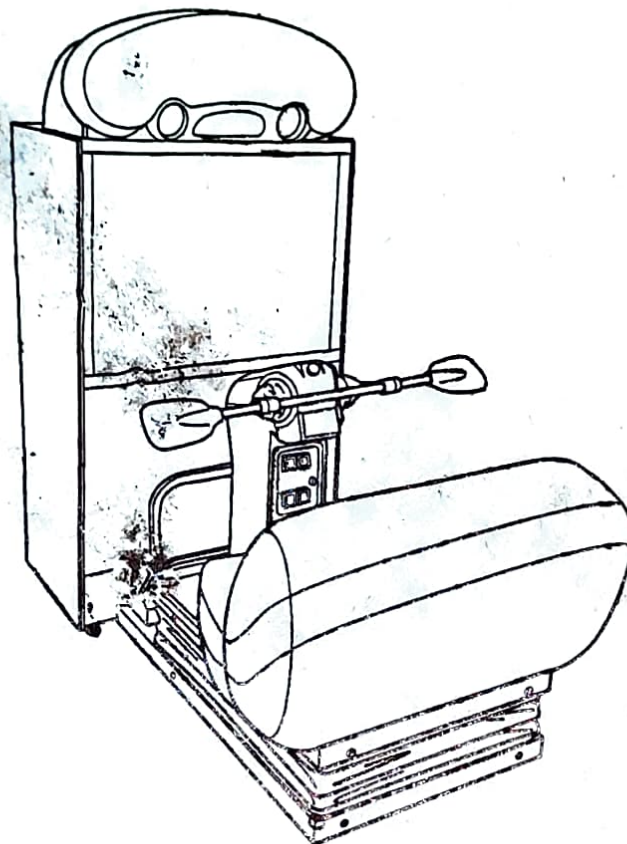


namco America Inc.



Rapid River Operator's Manual

Important

**Read PRECAUTIONS and INSTALLATION
Sections before operating game**

FCC Notice

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operating in a commercial environment. This equipment uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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ILLUSTRATIONS AND PARTS LISTS

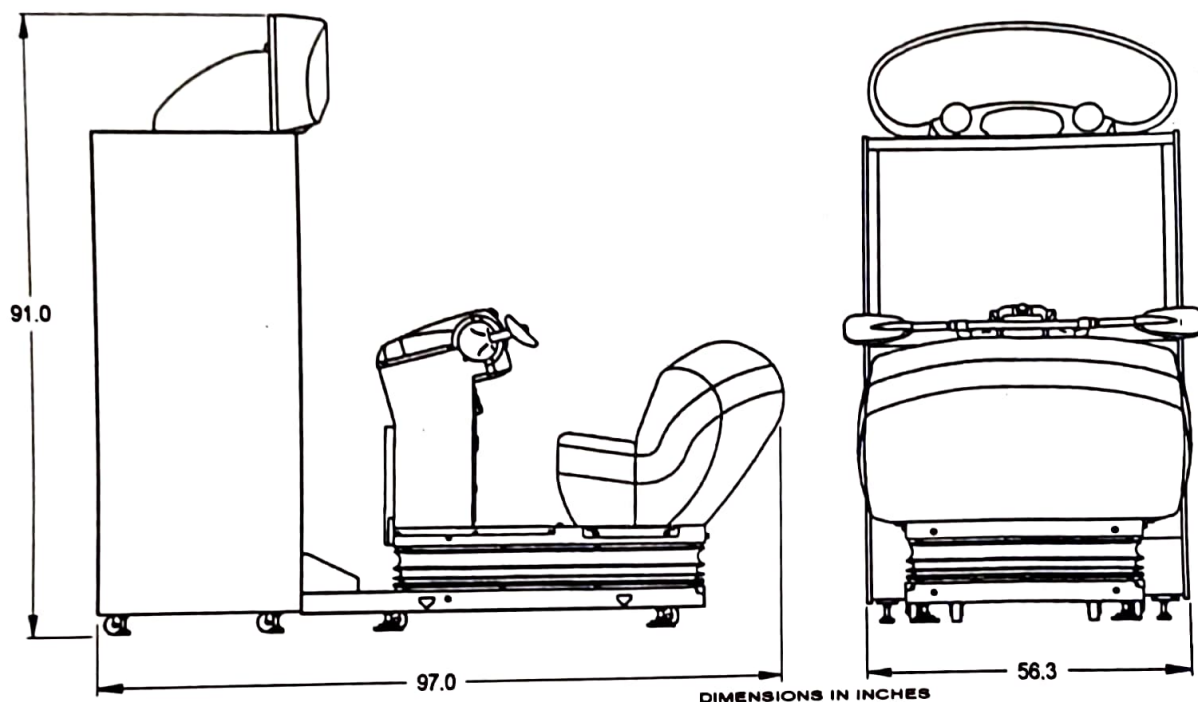
WIRING DIAGRAM

1.0 SPECIFICATIONS

Configuration:	Separate monitor cabinet and ride assemblies. Seat accomodates two.
Input Power:	110-125 VAC, 50/60 Hz, 10 Amps max
Power Supplies:	(1 ea.) +5V 15A switcher (1 ea.) +3.3V 6A switcher (1 ea.) +12V 4.3A switcher Power supplies located within PCB rack assy.
Monitor:	50 inch projector (Mitsubishi VS5043/50501)
Game PCB:	Namco System 22.5 Gorgon
Linking:	(not applicable)
Controls:	Paddle assy, 2 axis Horizontal (yaw): 1k 60 deg. pot Vertical (roll): 1k 60 deg. pot Paddle angle: 15 deg. p-p
Motion System	Pneumatic (regulated, 30 psi) Compressor tank capacity: 7 gal. Automatic moisture expulsion system Actuators: 4 air springs under motion base Vertical travel: approx. 37mm Roll/pitch excursion: approx. 3.2 deg. Solenoid valves: (4 ea.) direct acting, 5.4W Feedback: (4 ea.) 1k 280 deg. pots
Dimensions (packed):	Monitor cabinet assy: 52.5" W x 34" D x 87" H Ride base assy (w/marquee): 53" W x 75.5" D x 56.5" H
Weights (packed):	Monitor cabinet assy: 466 lbs Ride base assy: 800 lbs

Note: *Specifications are subject to change without prior notice. Shipping dimensions and weights are based on standard packing specification.*

1.1 Installed Dimensions



1.2 Convenience Kit (Included with Game Cabinet)

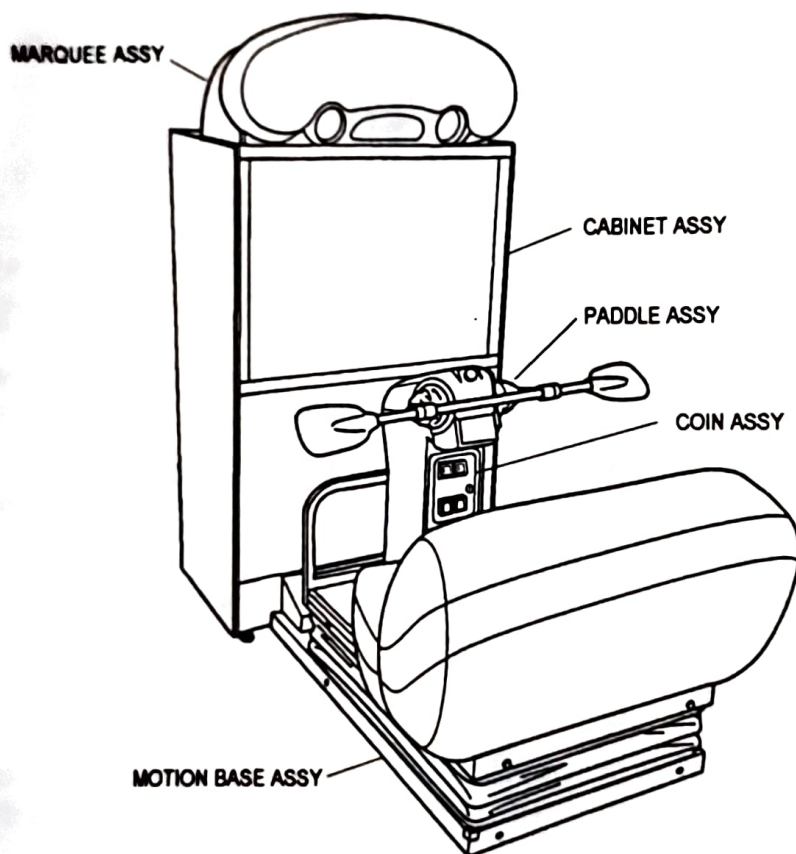
P/N	DESCRIPTION	#	P/N	DESCRIPTION	#
RP45-07445-00	MANUAL, OPERATOR'S	1	VG20-05658-40	BOLT, HEX HD, M8 x 40, BO	♦4
VG52-03584-12	FUSE, 10 AMP, SLOW-BLOW	1	VG20-05522-09	WASHER, FLAT, M8, BO	♦4
RP96-06991-00	FIN	2	VG20-05523-09	WASHER, SPLIT LOCK, M8, BO	♦4
VG20-06856-10	SCREW, SET, CUP POINT, M6x10	4	VG81-03070-25	BIT, TORX, TT-25	1
VG20-05360-40	BOLT, HEX HD, M6 x 40, SZ	2	871D198070	INSTRUCTION BOOK (PROJ TV)	1
VG20-05520-08	WASHER, FLAT, M6, SZ	2	290P066010	REMOTE HAND UNIT (PROJ TV)	1

♦ Installed in game cabinet at time of shipping

2.0 INTRODUCTION

2.1 Game Description

The main concept behind Rapid River is to provide a rafting experience suitable for couples or families, with the player(s) enjoying the unique events that occur during the trip down various forking courses. The ride base platform features a seat wide enough for two, with a pneumatic "air-ride" motion system producing 3.2 deg. of roll and pitch and about 1-1/2 inches of vertical travel.



Speed and direction is controlled by the paddle assembly, which provides 2-axes of feedback to the main PCB, and features a passive air cylinder to simulate the resistance of the water.

The pneumatic system is powered by a low-maintenance, cabinet-mounted compressor system, providing a regulated 30 psi output to four solenoid valves located in the motion base. The valves are individually controlled to produce ported pressure to four air springs. These provide the vertical force in each of the four corners of the ride. Configured in this way, they can be operated in combinations that will produce the motions of roll, pitch, and heave.

3.0 PRECAUTIONS

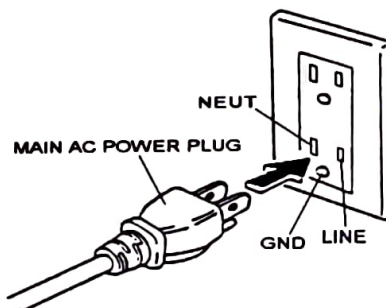
3.1 Installation

This game is designed for indoor use only. The following conditions must be met:

1. The game location must be free of direct exposure to sunlight, high humidity, dust, high heat or extreme cold. If installed in an unusually hot location, allow additional clearance between the rear of the game cabinet and any structure which would tend to restrict air circulation.

Do not install in an area such that the game would present an obstacle in case of an emergency (i.e., near fire equipment or emergency exits).

2. Vibration. Due to the considerable forces produced on the ride base by the motion platform, it is very important to make sure that both the cabinet/ride attachment bolts and the leg levelers are installed and tightened prior to operation.
3. Before operating the game, make sure that the main AC power hookup includes a safety ground. This will ensure safe operation as well as compliance with the applicable FCC and UL requirements.



4. Measure the AC line voltage [LINE to GND and LINE to NEUT] and verify that it is between 110 and 125VAC. NEUT to GND voltage should be less than 1VAC.

3.2 Handling

1. Before replacing any parts, turn the AC power OFF and unplug the game.
2. Do not attempt to repair the Printed Circuit Boards (PCBs) on-site. They contain sensitive integrated circuit chips that could be easily damaged, even by the small internal voltage of a multimeter. Always return the PCBs to your distributor for any repairs.

3. The game's monitor has areas of high voltage inside its outer case. If a problem occurs in the monitor, repairs or service should be performed by authorized personnel only.

If a problem occurs in the monitor, contact Namco Customer Service through your distributor, or contact the nearest authorized Mitsubishi service center. To find the one nearest you, contact Customer Service or check the yellow pages under "Television."

4. Use extreme care whenever removing or installing the monitor. Rough handling may adversely effect the convergence, and repairs resulting from rough handling will not be covered under the Warranty.
5. Within the game cabinet ferrite clamps and shields have been included where needed to control electric field emissions. Removal or relocation of either the ferrites or shields will cause the FCC specification limits to be exceeded, and may cause faulty operation of nearby susceptible equipment. Also, re-routing or disconnection of grounds within the game system will result in excessive emissions and/or a safety hazard.
6. Always return levelers to the extreme up position before moving the game.
7. Always re-install the shipping brackets (securing hardware) before moving the game.
8. Always separate the monitor cabinet and motion base assemblies before moving the game.
9. To avoid particle contamination of the pneumatic system, the following maintenance is required every 6 months:

WARNING

**REMOVE COMPRESSOR & EMPTY
THE TANK EVERY 6 MONTHS BY
REMOVING THE DRAIN PLUG AT THE
BOTTOM OF THE TANK**

VG44-07467-00

CAUTION

Always discharge the compressor reservoir tank before servicing any of the pneumatic system components.

3.3 Player Safety

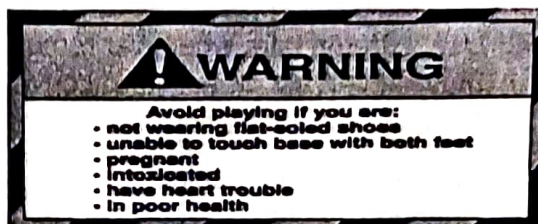


WARNING

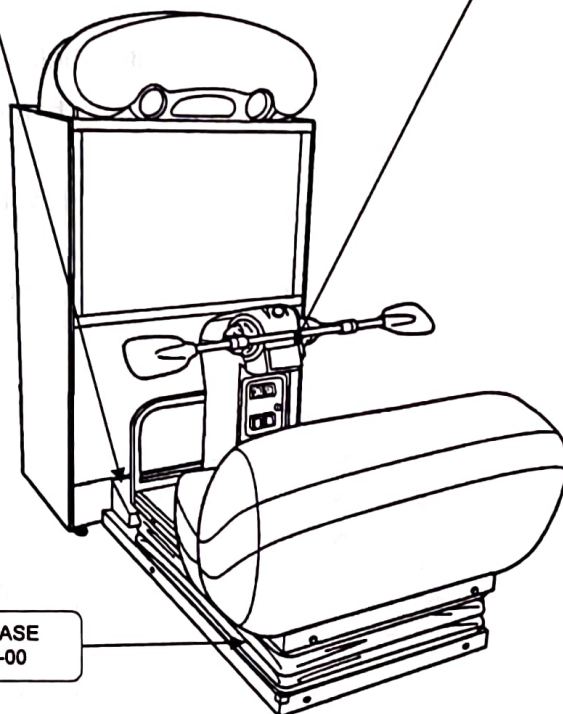
THE FEATURES SHOWN ARE INTENDED
TO PROTECT PLAYERS AGAINST INJURY.
REPLACE ANY DAMAGED OR MISSING PARTS.



DECAL, CAUTION, DO NOT STAND
VG40-07228-00



DECAL, RESTRICTION
RP40-07216-00



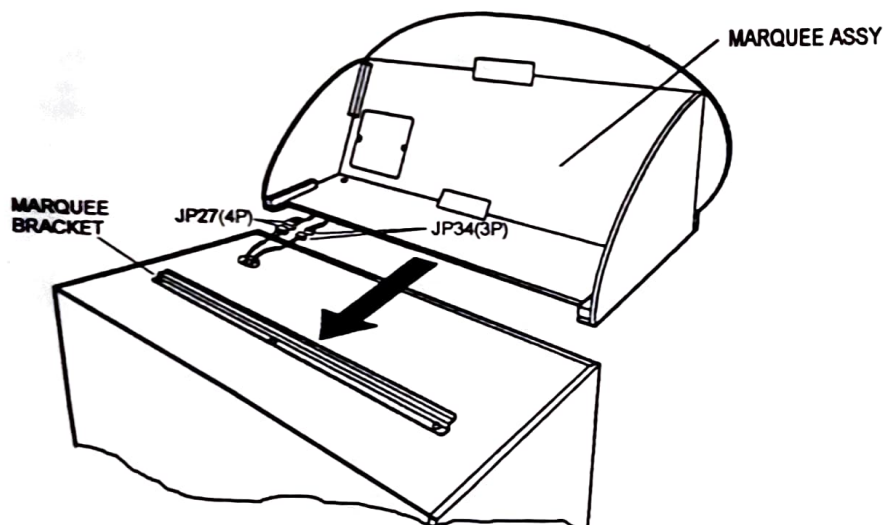
BELLOWS, BASE
RP97-06990-00

4.0 INSTALLATION

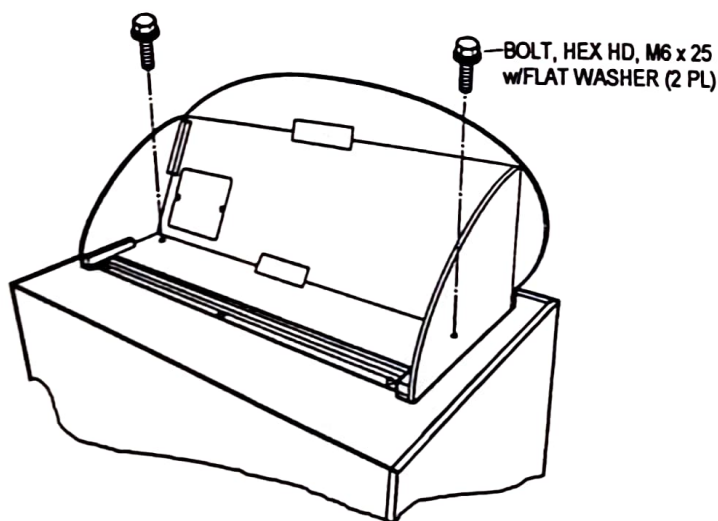
4.1 Marquee Installation

Tools needed: 10mm wrench

- 1 Remove the 2 ea. M6 x 25 bolts with flat washers from the convenience kit.
- 2 Lift the marquee over the monitor cabinet as shown, and connect the cable harnesses at JP27 and JP34.



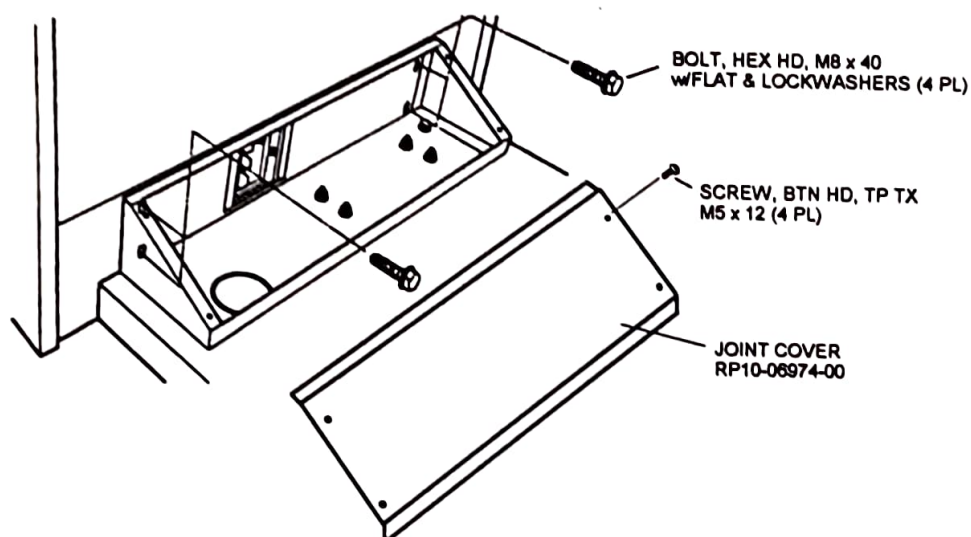
- 3 Slide the marquee into position over the marquee bracket, and install the bolts.



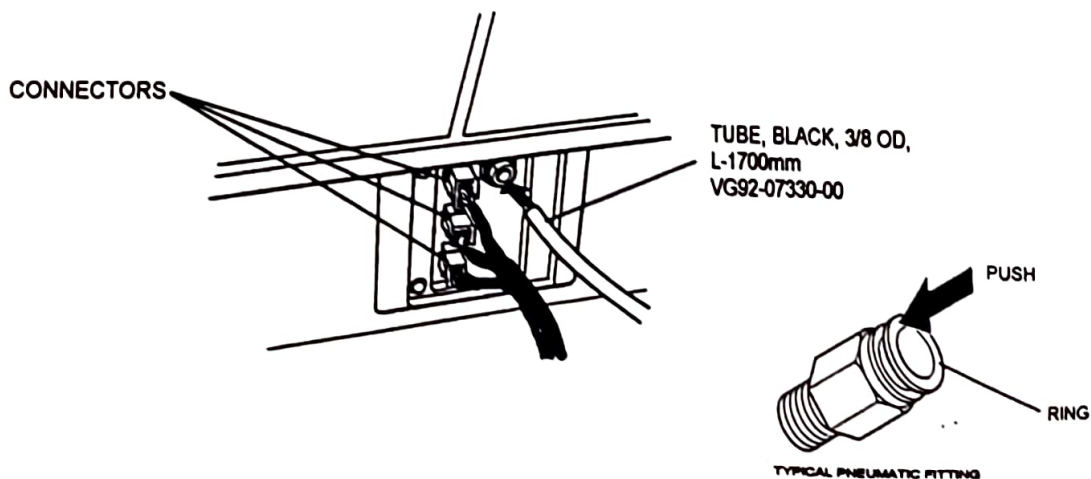
4.2 Motion Base to Monitor Cabinet

Tools needed: Torx TT-25 bit (in convenience kit); 13mm wrench

1. Remove the 4 ea. M8 x 40 bolts with washers from the front of the monitor cabinet.
2. Remove the joint cover from the front of the motion base as shown below.
3. Move the monitor cabinet and motion base into position. With the units approximately level, install the bolts finger tight.
4. Lower the levelers on both units and tighten the bolts to 18-22 ft-lb.



5. Connect the three harnesses and air tube. [push to connect; press ring to disconnect].

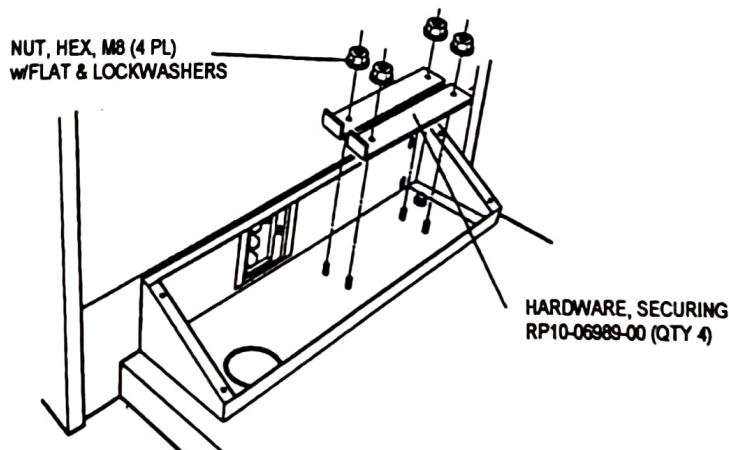
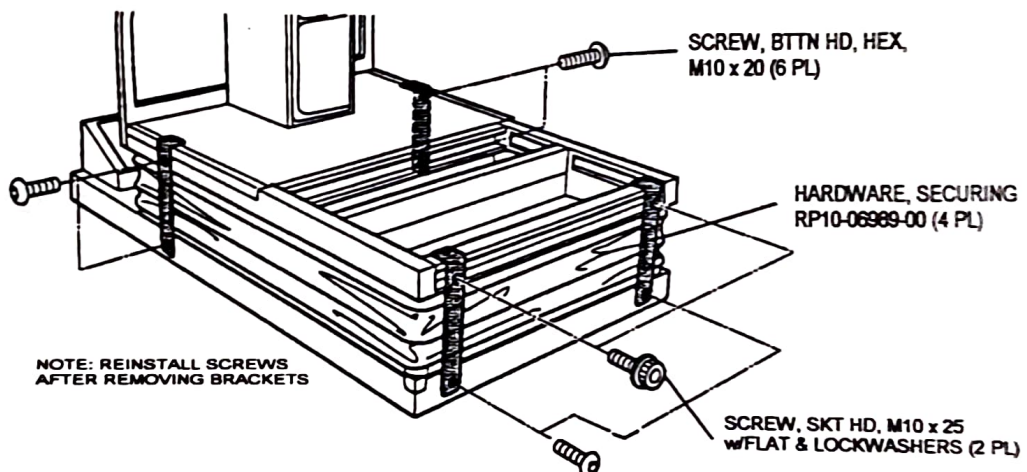


4.3 Securing Hardware (Shipping Bracket) Removal

 WARNING	REMOVE BRACKETS AND LOWER LEG LEVELERS BEFORE OPERATING THE GAME.
---	---

Tools needed: 6mm and 8mm hex keys; 13mm wrench

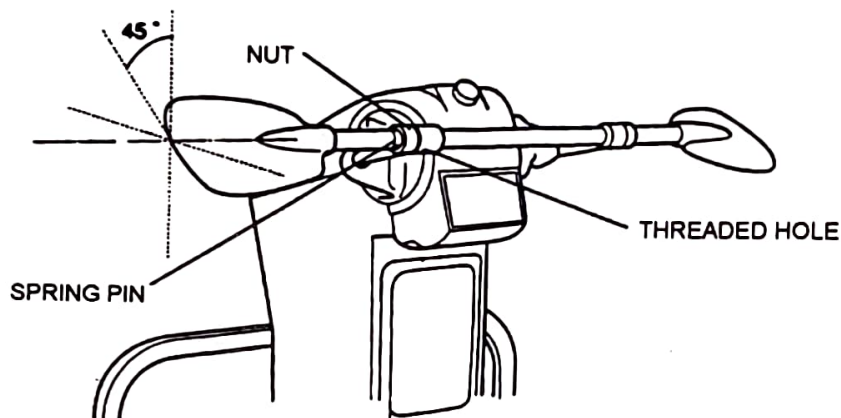
1. Remove the eight screws that attach the hardware (brackets) to the motion base, as shown below.
2. Set the brackets aside and reinstall the screws.
3. To prevent loss of the brackets, secure them as shown in the front the motion base.
4. Once completed, install the joint cover plate.



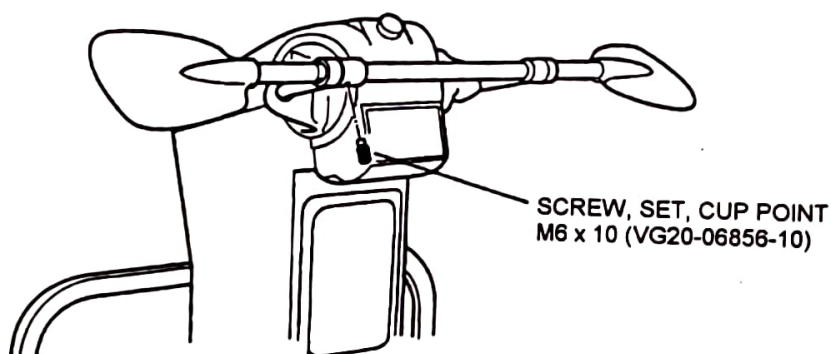
4.4 Paddle Installation

Tools needed: 3mm hex key; 36mm or open-end adjustable wrench

1. Insert the left and right paddles into the paddle assy.
2. Adjust the angle of the fin such that the spring pin in the paddle is approximately parallel to the threaded set-screw hole in the paddle assy. [This helps to ensure that the paddles are evenly aligned].



3. Tighten the large nut on each paddle.
4. Tighten the set-screws. [If desired, non-hardening Locktite can be used].



5.0 INITIALIZATION, TEST MODES, & GAME OPTIONS

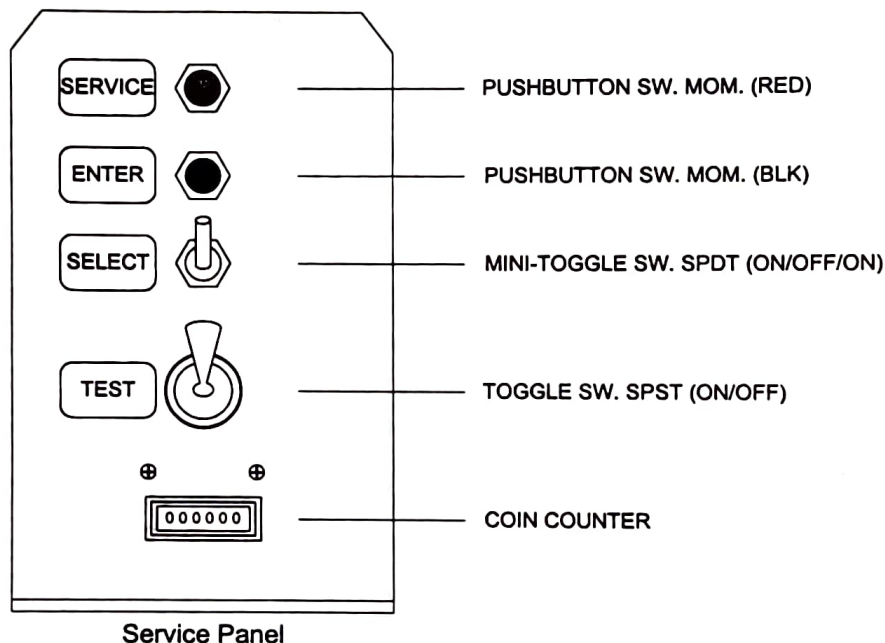
5.1 Game Initialization and Main Menu

IMPORTANT

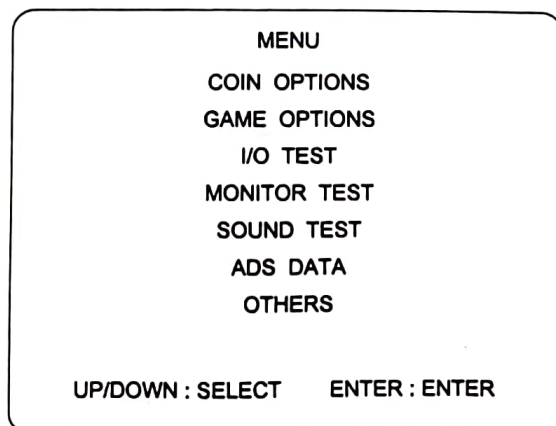
Always initialize the game after replacing either the game PCB, ROMs, power supply, ride assy potentiometers, or at the time of game installation. Perform this procedure in the sequence indicated.

- System initialization is performed as follows:

a) Open the coin door to gain access to the SERVICE panel.



b) Flip the TEST switch ON. The main test MENU screen will appear.



- c) Either select VOLUME ADJUST on the OTHERS menu or , while pressing the SERVICE switch, flip the TEST switch OFF, then ON again. The VOLUME ADJUST screen will appear.

VOLUME ADJUST

	A680	OK
HORIZONTAL :	6D40	OK
	1AC0	OK
	A680	OK
VERTICAL :	6140	OK
	1940	OK
	7C80	7B80
FRONT L :	7C40	FRONT R : 7BC0
	7C80	7B80
	7F00	7C00
REAR L :	7F00	REAR R : 7C00
	7F00	7C00

ROTATE THE PADDLE
PUSH ENTER TO STORE THE RESULT

- d) Rotate the paddle 2 or 3 times through its full angle of rotation. Verify that "OK" readings are obtained on horizontal and vertical axes.
- e) Press the ENTER switch to update the initialization data.
- f) Turn the TEST switch OFF, then ON again, and proceed with the other items on the test menu.

NOTE:

- Use the SELECT switch to select the item to be changed.
- Press the ENTER switch to change the value of the selected item.
- After setting the desired value, select EXIT to return to the main menu.

5.1.1 Coin Options

COIN OPTIONS [DEFAULT IN GREEN]

GAME COST 4 COIN[8] 1 CREDIT _____ (a)

FREE PLAY OFF _____ (b)

EXIT

UPDOWN : SELECT ENTER : ENTER

Item	Description	Range	Default
(a)	Number of coins required per game (1 credit)	1 - 9 COINS	2
(b)	Determines whether coin-up is required to play	ON/OFF	OFF

5.1.2 Game Options

GAME OPTIONS [DEFAULT IN GREEN]			
TIME DIFFICULTY	NORMAL	_____	(a)
BURDEN GAME	NORMAL	_____	(b)
BONUS DIFFICULTY	NORMAL	_____	(c)
TIME LIMIT	ON	_____	(d)
VIEW POINT	AUTO	_____	(e)
PLAYER CHARACTER	PAIR	_____	(f)
ATTRACT SOUND	ALL	_____	(g)
HI-SCORE INITIALIZE	NO	_____	(h)
EXIT			
UP/DOWN : SELECT ENTER : ENTER			

Item	Description	Range	Default
(a)	This sets the time limit for one game.	EASY (long) NORMAL (med.) HARD (short)	NORMAL
(b)	This sets the difficulty of the mini game. The mini game may end in the middle of the course.	EASY NORMAL HARD	NORMAL
(c)	This sets the criteria for the player to enter the bonus stage.	EASY NORMAL HARD	NORMAL
(d)	This determines whether a time limit is active. In some events, it may be desirable to turn off the time limit.	ON OFF	ON
(e)	Player view point.	AUTO BEHIND (audience) RIDE (player)	AUTO
(f)	Number of players.	PAIR (two) MAN WOMAN	PAIR
(g)	Sound emitted during the attraction mode. For title call but no music, select MC.	ALL (always) MC (title only) OFF (no music)	ALL
(h)	Initializes the registered names for the high scores. When YES, the registered names are initialized when the power is turned off. When NOW is selected, they are initialized immediately.	YES NO NOW	NO

5.1.3 I/O Test

I/O TEST

DIP 1 2 3 4 5 6 7 8 _____ (a)

SWITCH & PADDLE _____ (b)

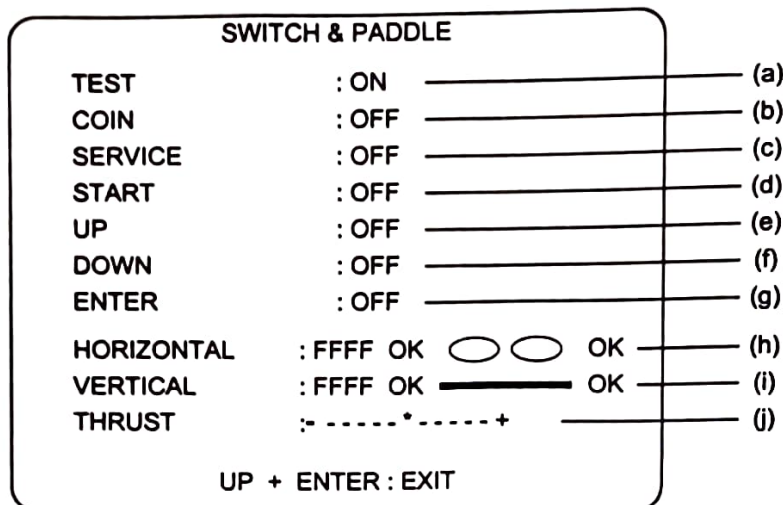
RIDE TEST _____ (c)

EXIT

UP/DOWN : SELECT ENTER SW : ENTER

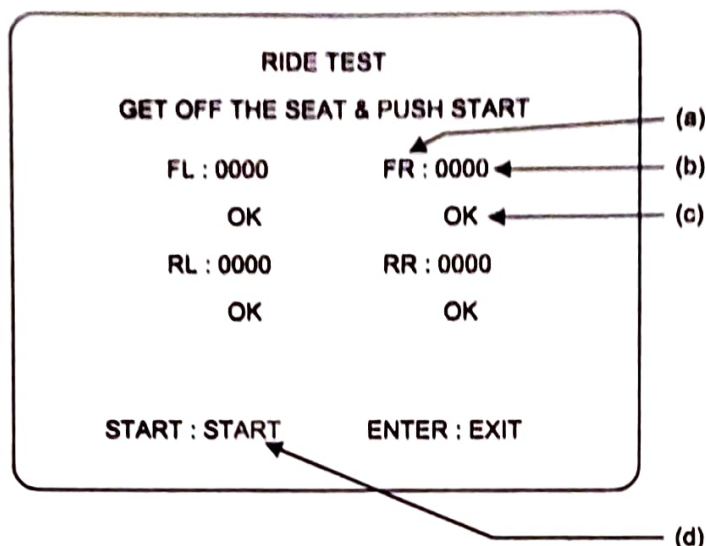
Item	Description	Range	Default
(a)	The status of the DIP switch (SW0501) on the game PCB is displayed. Switches that are ON are highlighted in red.	ON/OFF	OFF (all)
(b)	Provides a test screen for the functional checkout of the switches and a test of the feedback potentiometers.	-----	-----
(c)	Provides a test screen for a test of the four air springs on the motion base.	-----	-----

5.1.3.1 Switch and Paddle Test



Item	Description	Range	Default
(a-g)	Allows each switch to be tested.	OFF/ON	OFF
(h)	These notes are valid following system initialization. When the paddle is centered, 0000 will be displayed. The values decrease as the left paddle is pushed towards the video monitor (yaw, right). The values increase as the right paddle is pushed towards the screen (yaw, left). Verify that OK is displayed at less than the maximum allowable mechanical angle in each of the two directions. Typical values are shown in the Range column. Deviations from the typical values (+/-10%) are acceptable and can be expected to result from scale factor variations in the axis potentiometers.	0000 – FFFF OK at 3360 (left) OK at CCA0 (right) 4820 (left, max) BC60 (rt, max)	0000 paddle centered (horiz)
(i)	When the paddle is centered in the vertical axis, 0000 is displayed. Values decrease for CCW roll motion (left), and increase for CW roll (right). Verify that OK is displayed at less than the maximum angle. The slope of the graphic displayed between the 2 "OK's" must have the same directional sense as the paddle angle.	0000-FFFF; OK at CCA0 (left) OK at 3360 (right) BD00 (left,max) 4600 (rt, max)	0000 paddle centered (vert)
(j)	Provides a graphical means for verifying the proper sense of the rowing action. When the paddle is rowed in the forward direction, asterisks will appear on the plus (+) side; when paddled in the reverse direction, they appear on the (-) side.	+/- * * * * *	As shown

5.1.3.2 Ride Test



Item	Description	Range	Default
(a)	Indicates the location of the air spring under test.	FR = front right RR = rear right RL = rear left FL = front left	-----
(b)	Indicates the height of the air spring with respect to its uninflated height. The value increases as the spring is extended.	0000 - FFFF	0000
(c)	"OK" appears following successful completion of the test for each air spring. If an error occurs [EX: actuator problem or incorrect height feedback] "NG" will appear.	----- OK NG	-----
(d)	Push the START button to start the test. "DISCONTINUE" appears during execution of the test. To stop at any time, press START. This will cause an exit to the I/O TEST screen. To retest, press START at the TEST AGAIN prompt. Test sequence: FRONT UP ⇒ REAR UP ⇒ LEFT UP ⇒ RIGHT UP	START DISCONTINUE TEST AGAIN	START

5.1.4 Monitor Test

MONITOR TEST	
GRADATION PATTERN	(a)
CROSSHATCH PATTERN (CRT)	(b)
CROSSHATCH PATTERN (PROJECTOR)	(c)
WHITE WINDOW (H)	(d)
WHITE WINDOW (M)	(e)
WHITE WINDOW (L)	(f)
INTERLACE PATTERN	(g)
VIEW ANGLE ADJUST (CRT)	(h)
VIEW ANGLE ADJUST (PROJECTOR)	(i)
FULL WHITE	(j)
EXIT	
UP/DOWN : CHOOSE ENTER : IN	(k)

Item	Test	Description
(a)	Gradation Pattern	Four bars (G, R, B, W from top to bottom) with 16 gradations each are displayed.
(b)	Crosshatch Pattern [CRT]	Green Grid is displayed. Lines should be reasonably straight, undistorted and uniformly bright across screen.
(c)	Crosshatch Pattern [Projector]	White Grid is displayed. This can be used to check monitor convergence. Slight non-convergence (R, G or B showing) is normal.
(d,e,f)	White Window [H, M, L]	Used to check light output (contrast) of screen. WHITE [H] reading should be 40 to 80 ft-L. Monitor contrast adjustments can be made using the remote control handheld unit.
(g)	Interlace Pattern	A pattern of line blocks is displayed, used for indication of vertical hold adjustment. On the center pair of line blocks, the top line of the right block of lines should be aligned with the space between the first and second lines of the left block.
(h)	View Angle Adjust [CRT]	Green Screen, with black frame, used at factory to set the VERT height, HORIZ width, and VERT/HORIZ centering. Crosspoint should be in the center of the screen. Horizontal width should be set for slight overscan. If adjustments are required, refer to the supplemental adjustment procedure for the projector.
(i)	View Angle Adjust [Projector]	Black Screen, with white frame. Crosspoint should be in center of screen.
(j)	Full White	Used to check White screen light output (Nominally 15-20 ft-L).
(k)		Press ENTER to display test screen, or to return to the menu screen.

SOUND TEST [DEFAULT IN GREEN]	
GAME VOLUME	40 (a)
ATTRACT VOLUME	40 (b)
REQUEST SONG NO.	000 (c)
MESSAGE	(d)
EXIT UP/DOWN : SELECT ENTER : ENTER SERVICE : REQUEST ON/OFF	

Item	Description	Range	Default
(a)	Indicates the audio level during the game.	00 (min.) 64 (max.)	40
(b)	Indicates the audio level during the attract mode.	00 (min.) 64 (max.)	40
(c)	Test and sound effects number. To change the selection, press ENTER, then use the SELECT switch. Press the SERVICE switch to validate the selection. The selected sound will play for up to 10 seconds.	000 - 255	000
(d)	Selection 001 is a stereo sound test. LEFT, RIGHT, and CENTER are tested in sequence. The speaker being tested is indicated under MESSAGE.	-----	-----

5.1.6 ADS Data

Test screen(s) provide data on Power-On time, Play Time, Average Time, Play/On Ratio, Total Play Time, Total Coins, and performance data with respect to the course selections.

The accumulated data shall not be initialized upon power-off and will remain in memory until either DATA INITIALIZE (in the ADS screen) or BACKUP RAM INITIALIZE (OTHERS screen) is selected.

5.1.7 Others Test

OTHERS	
ROM Ver. - / - / - : : : :	_____ (a)
LOCALITY : AMERICA	_____ (b)
PCB TEST	_____ (c)
POINT ROM CHECK	_____ (d)
DATA ROM CHECK	_____ (e)
VOLUME ADJUST	_____ (f)
BACKUP RAM INITIALIZE [NO]	_____ (g)
LANGUAGE	_____ (h)
EXIT	
UP/DOWN : SELECT ENTER : ENTER	

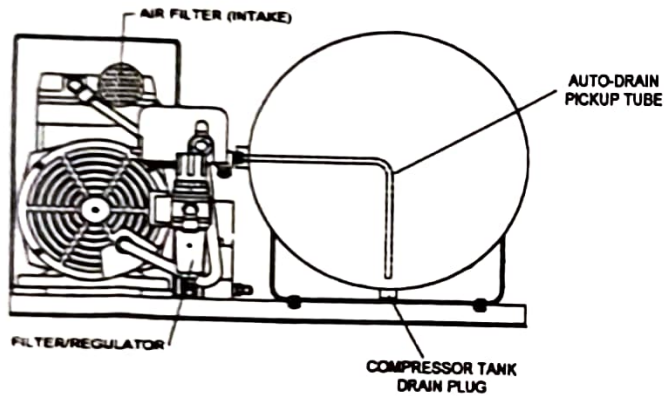
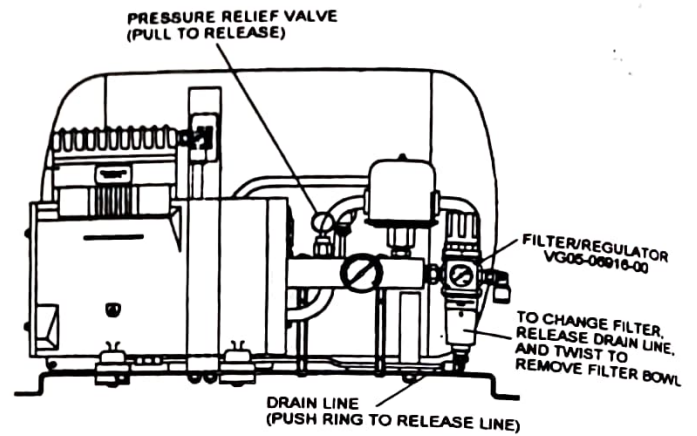
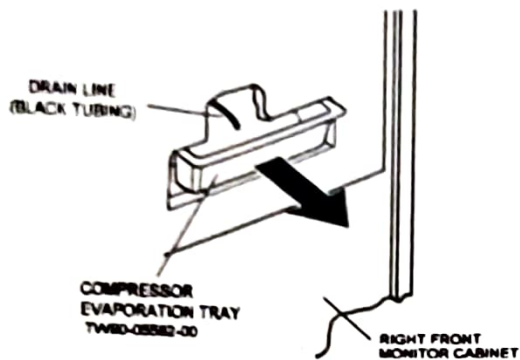
Item	Description	Range	Default
(a)	Displays the software version.	-----	-----
(b)	Displays the market for which the product is intended.	-----	-----
(c)	(PCB tests not available/inactive at time of production)	-----	-----
(d)	Performs a test on the POINT ROM. OK is displayed at the end of the test.	OK/NG	OK
(e)	Performs a test on the DATA ROM.	OK/NG	OK
(f)	When selected, VOLUME ADJUST initializes the game. The game must be initialized after replacement of any of these components: Game PCB(s), ROMS, power supplie(s), . potentiometers, or mechanical linkages to potentiometers. (also, see section on INITIALIZATION)	-----	-----
(g)	When BACK UP RAM INITIALIZE is selected, the screen presents a YES/NO choice. When YES is selected, followed by ENTER, both the game option settings, potentiometer offset, and game data are reset to their default values. After initializing the backup memory, perform the game initialization procedure.	YES/NO	NO

6.0 MAINTENANCE

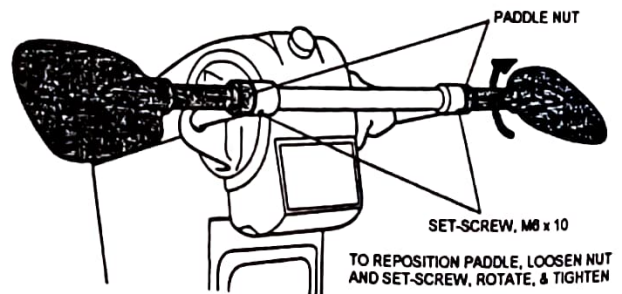
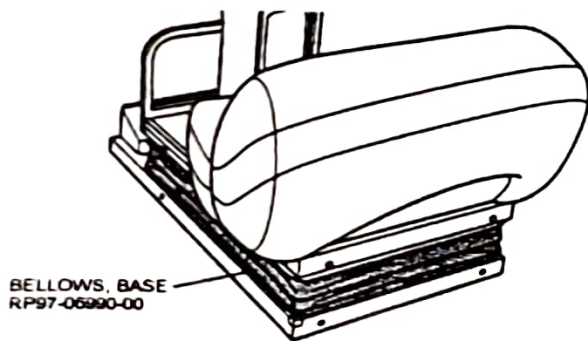
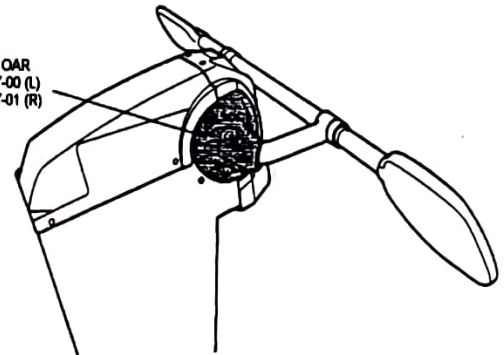
6.1 Maintenance and Inspection Schedule

Item	Frequency	Comments
Compressor evaporation tray - empty water	Daily *	* Maintenance interval depends on environmental conditions. If the game is new to a location, the tray should be checked daily until such time as the water accumulation rate is known. Humidity and compressor duty cycle are factors effecting the amount of water discharged. Typically the water will disappear through evaporation, therefore, daily maintenance of the tray will not be necessary.
Compressor auto-drain pneumatic circuit - verify operation	Initial installation; monthly	Moisture that accumulates in the reservoir tank and filter regulator is purged from the system automatically, each time the compressor cycles ON. Upon start-up, a solid-state timer driving a solenoid valve vents the system pressure to the evaporation tray via the black tubing. The timer disconnects the solenoid after 1 second. Thus, to verify proper operation, a burst of air containing accumulated moisture will be emitted from the tube for 1 second each time the compressor cycles ON. At all other times, there should be no air escaping.
Compressor system operating pressure - check	Monthly	The system is designed to maintain 30-35 psi while the game is playing. Check gauge pressure on filter/regulator valve. If less than 30 psi, do not attempt to adjust regulator - check for system leaks.
Compressor - drain tank	6 months	RELEASE PRESSURE FROM SYSTEM. Remove the compressor unit from the game cabinet. NOTE: The auto-drain pick-up tube extends into the tank within a half inch of the bottom, but does not go all the way to the bottom to prevent the solid contaminants that accumulate there from being expelled through the drain solenoid valve. Drain the residue by removing the plug in the bottom of the tank. (requires 1/4 in. hex wrench)
Compressor - check/clean/replace filters	6 months	RELEASE PRESSURE FROM SYSTEM. Filter/regulator filter. If contaminated, replace it. Replacement p/n: TW92-05855-00 Air intake filter on compressor: Clean the foam element in soapy water, rinse, then air dry. DO NOT USE CHEMICAL SOLVENTS
Bellows (base and handle) - inspect	Daily	These are provided as player safety features and they prevent debris from getting inside the game. Inspect for tears or rips. Replace if damaged.
Paddle assy - inspect	Daily	Verify that the paddles are tight. Verify that the paddle exhibits some resistance to the rowing motion. This indicates that the air cylinder within the paddle assy is functioning.
Cooling fans - verify operation and clean intakes	Monthly	In the back of the game cabinet, verify that the 2 fans on the compressor side, and the fan inside the PCB rack are operating. Vacuum dust from ventilation grills.

6.1.1 Maintenance Items

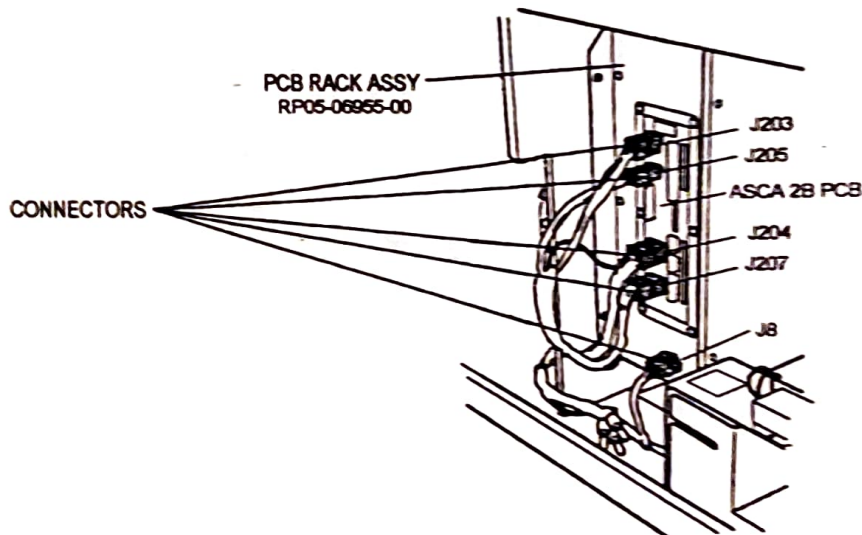


BELLOWS, OAR
RP96-07247-00 (L)
RP96-07247-01 (R)

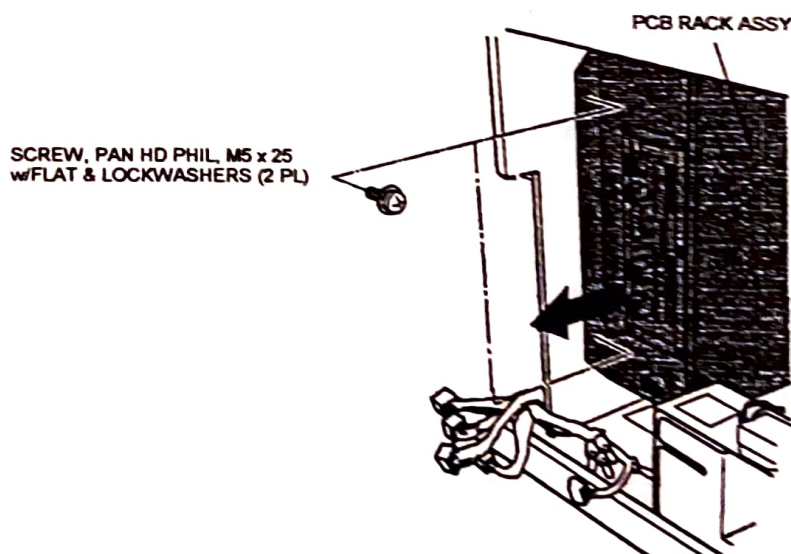


6.2 PCB Rack Assy Replacement

1. Turn off the main AC power switch and disconnect the main power cord.
2. Open and remove the back door.
3. Disconnect the five connectors on the PCB rack assy.



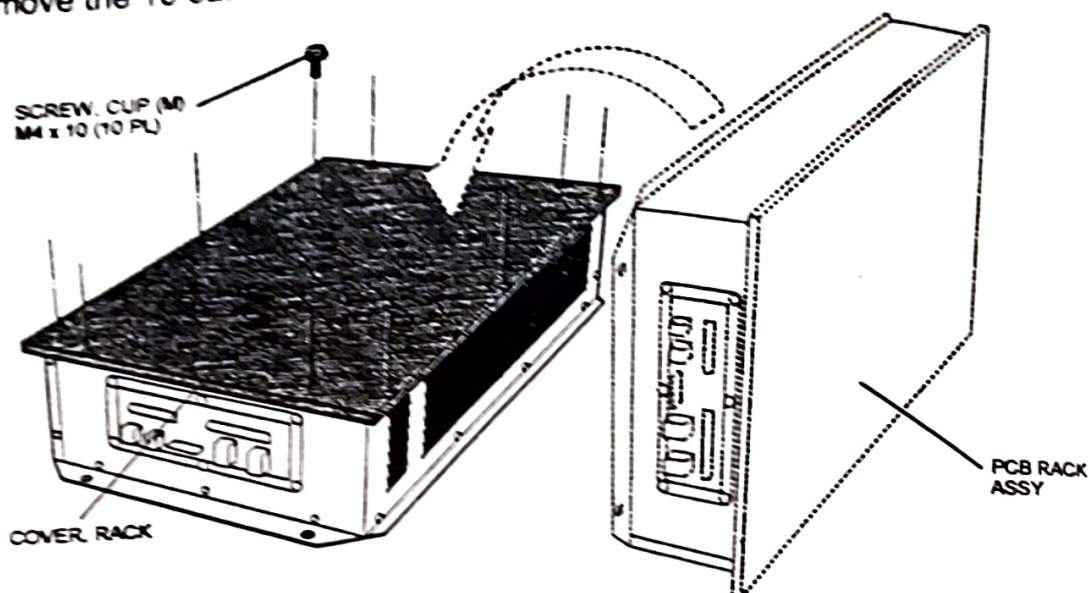
4. Remove the two M5 x 25 phillips screws that secure the rack to the cabinet.



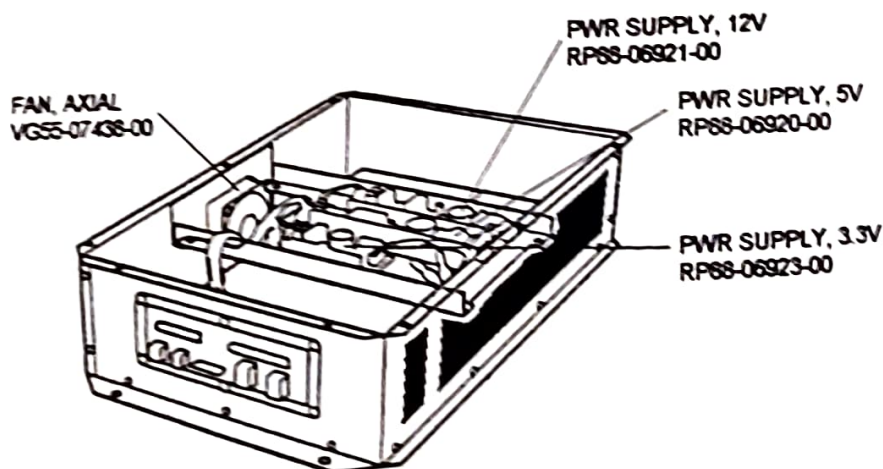
- When removing and handling the rack assy, use care to avoid mechanical shock. *If PCB service is required, contact your Distributor.*

6.3 Power Supply Replacement

1. Remove the PCB rack assy from the game cabinet.
2. Remove the 10 ea. M4 x 10 screws that secure the rack cover to the rack.



3. The 12V, 5V, and 3.3V supplies are located within the rack assy as shown.

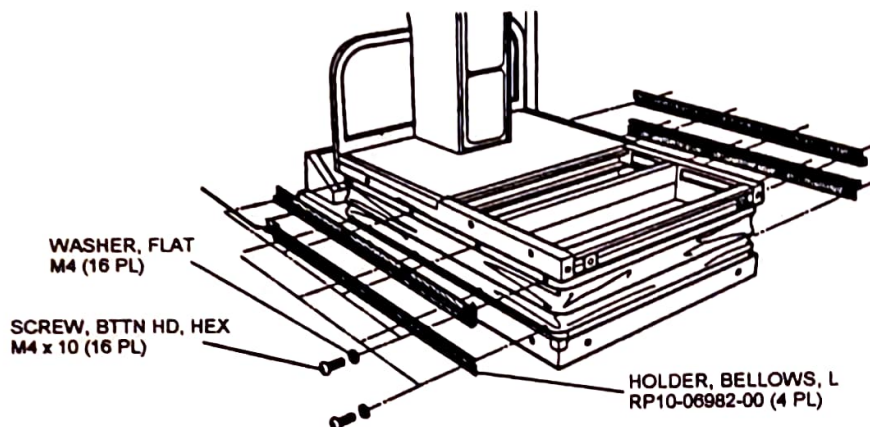


4. Remove the power supply from its standoffs, disconnect, and bench test.

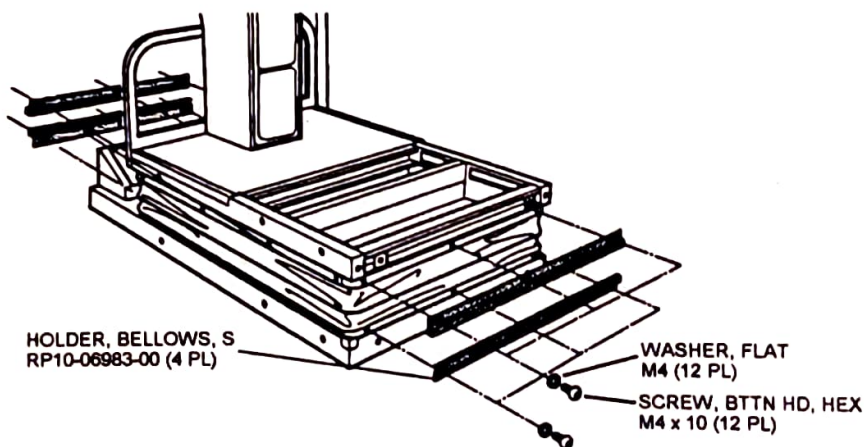
- Replace defective power supplies using only those which have power ratings and configurations equivalent to the original equipment.
- Always check the fan before reinstallation of the rack assy.

6.4 Base Bellows Replacement

1. Remove the M10 x 25 socket-head screws that attach the seat assy to the upper frame. There are 4 screws in the seat base and 2 in each of the two seat side brackets. Remove the seat assy.
2. Remove the 16 ea. M4 x 10 button-head hex screws that attach the four bellows holders (L) to the left and right sides of the frame, and remove the holders.

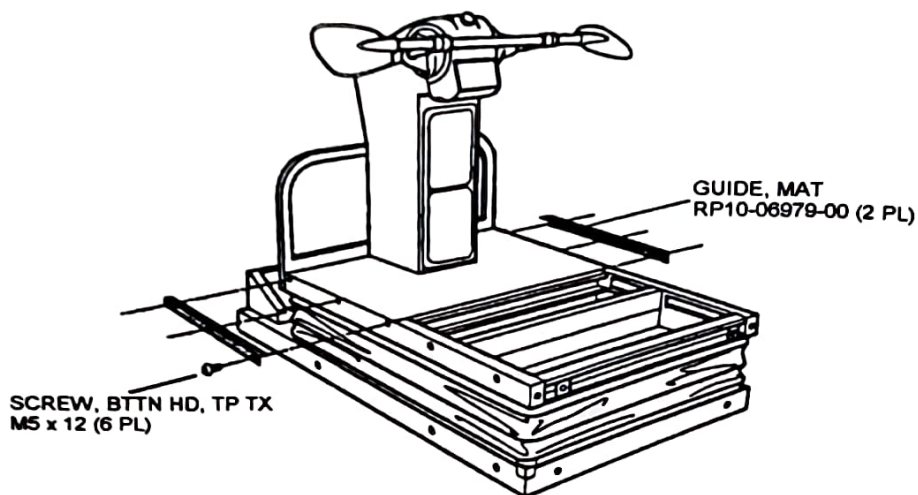


3. Remove the 12 ea. M4 x 10 button-head hex screws that attach the four bellows holders (S) to the front and back sides of the frame, and remove the holders.

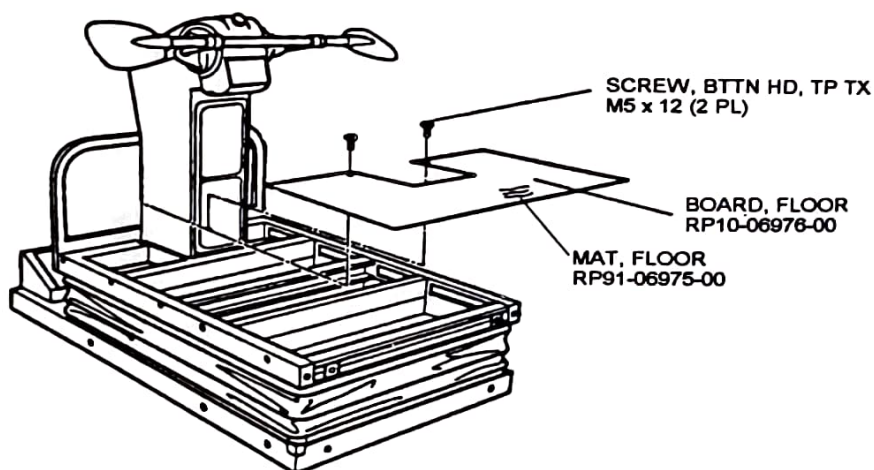


Base Bellows Replacement (continued)

- 4.** Remove the 6 ea. M5 x 12 button-head TORX TP screws that attach the two mat guides to the frame, and remove the mat guides.



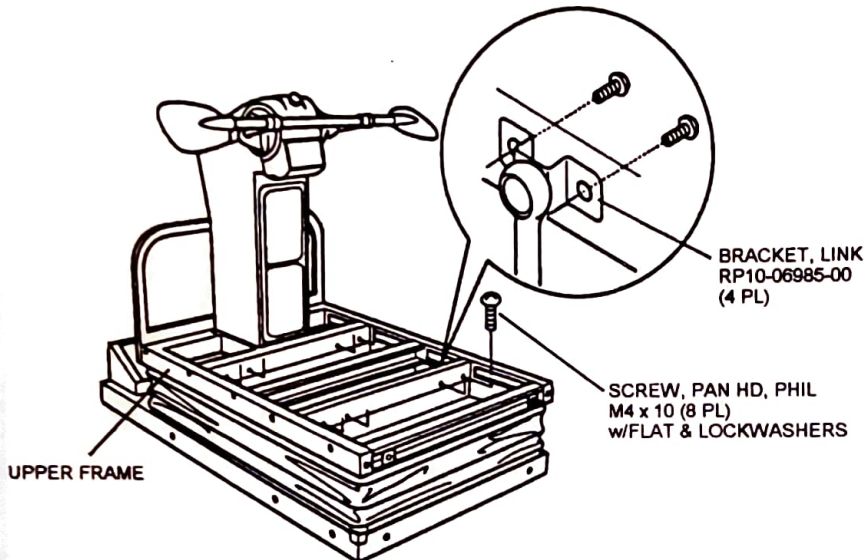
- 5.** Remove the 2 ea. M5 x 12 TORX TP screws that attach the floor board with mat to the frame, and remove the floor board.



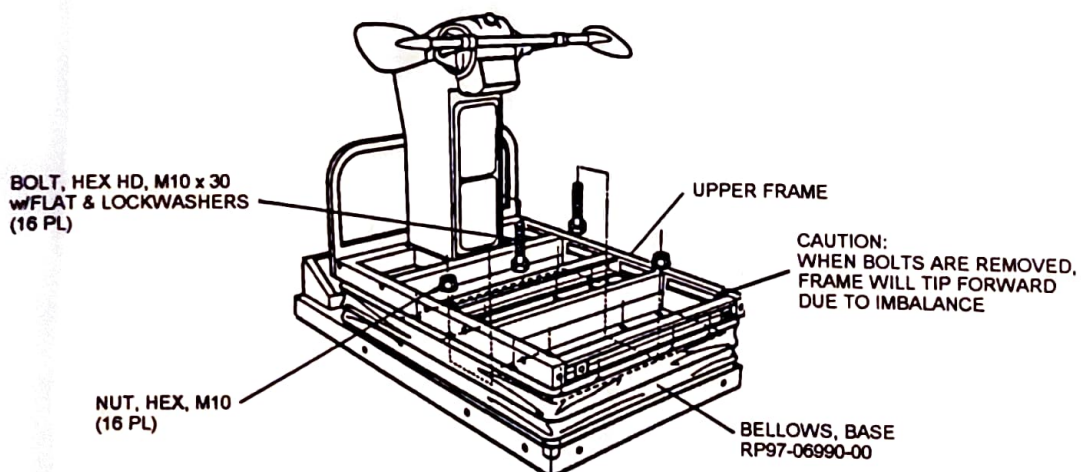
- 6.** Disconnect the wire harness that feeds the coin assy at JP9, making sure that the remaining cable will not be damaged when the upper frame is removed.

Base Bellows Replacement (continued)

7. Remove the 8 ea. M4 x 10 pan-head phillips screws that attach the four link brackets to the upper frame, and rotate the link assemblies out of the way.



8. On each of the four air springs, remove the 4 ea. M10 x 30 bolts, washers and hex nuts that secure the air spring plate to the upper frame, being careful to steady the unit as these bolts are removed.

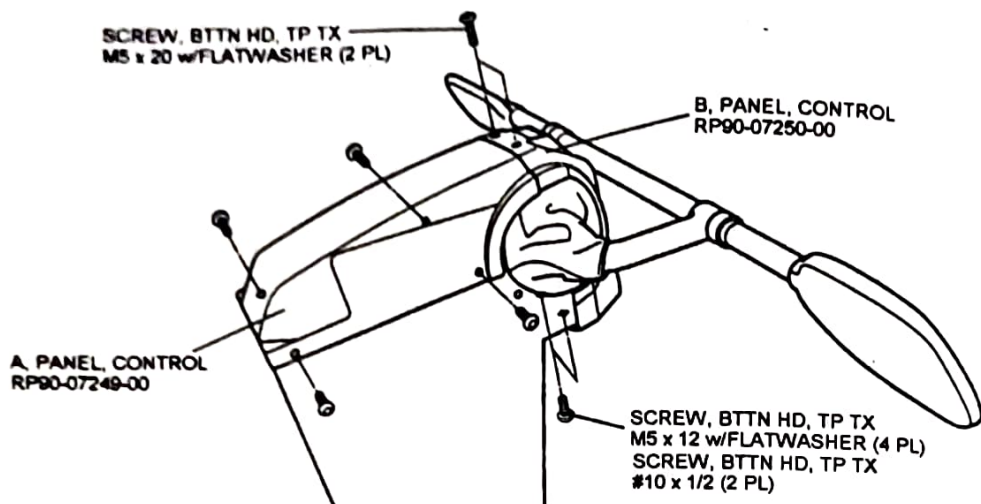


9. Lift and remove the upper frame with coin tower as a unit, remove and replace the base bellows.

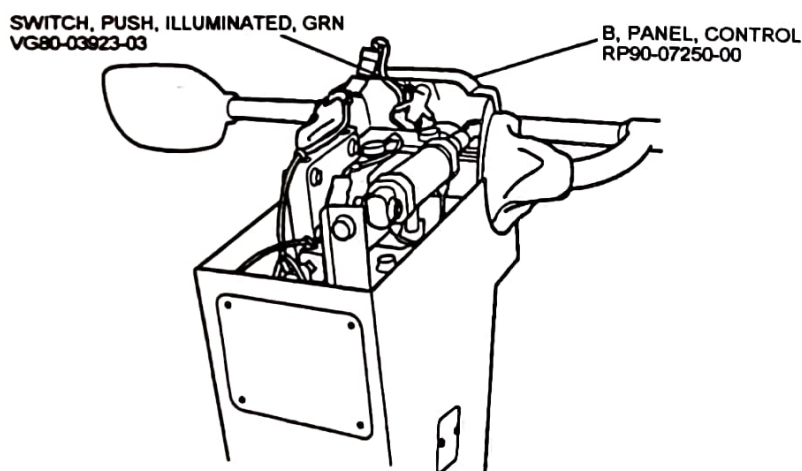
To reassemble the ride, reverse the procedure.

6.5 Control Panel A & B Removal

1. Remove the 2 ea. M5 x 20, 4 ea. M5 x 12, and (if used) 2 ea. #10 x 1/2 button-head TORX TP screws that attach the A & B control panels to the coin tower.

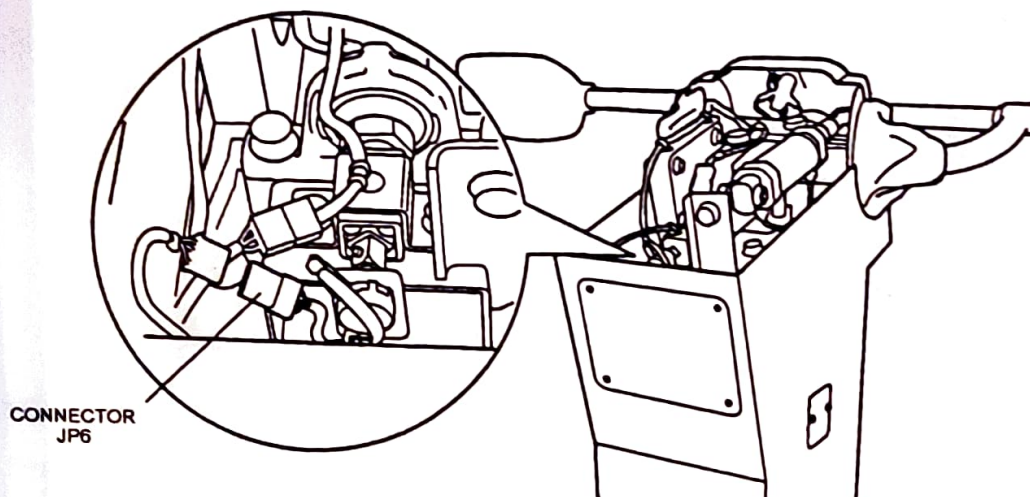


2. Remove control panel (A).
3. Disconnect the wires from the green START switch, and remove panel (B).

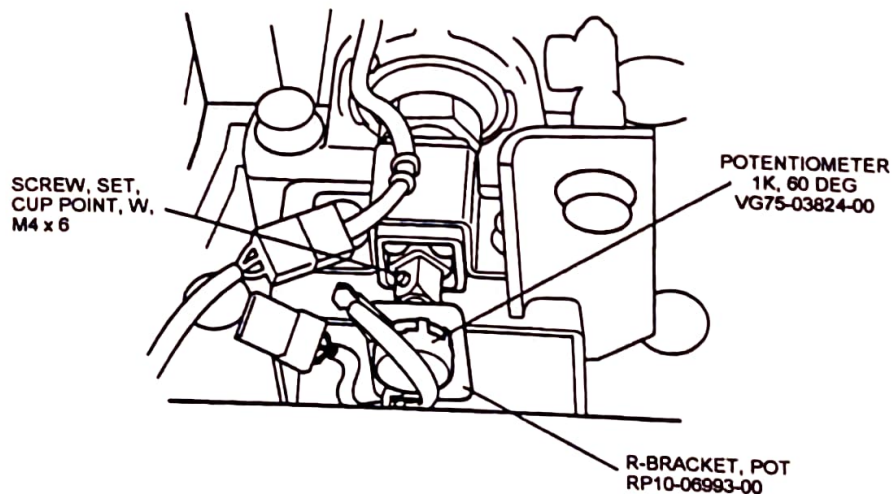


6.6 Roll Potentiometer Replacement

1. Remove control panels (A) and (B).
2. Disconnect harness connector JP6.

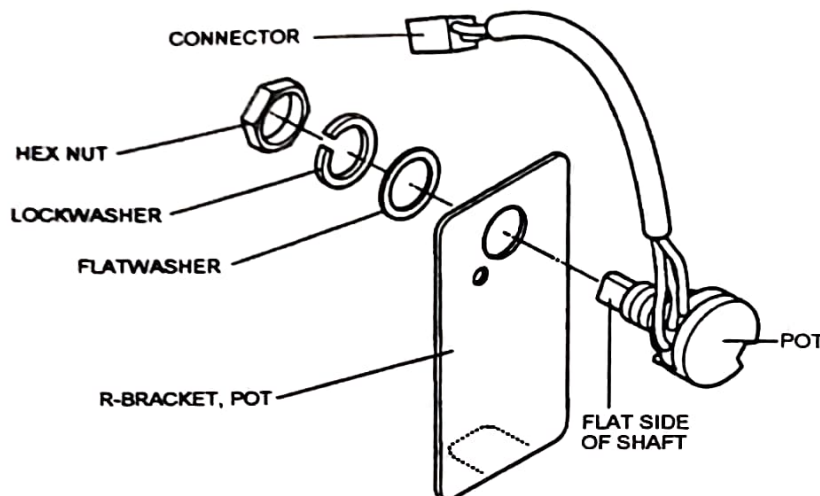


3. Loosen the M4 x 6 set screw, and remove the potentiometer and bracket.



Roll Potentiometer Replacement (continued)

4. Remove the pot from the R-bracket.



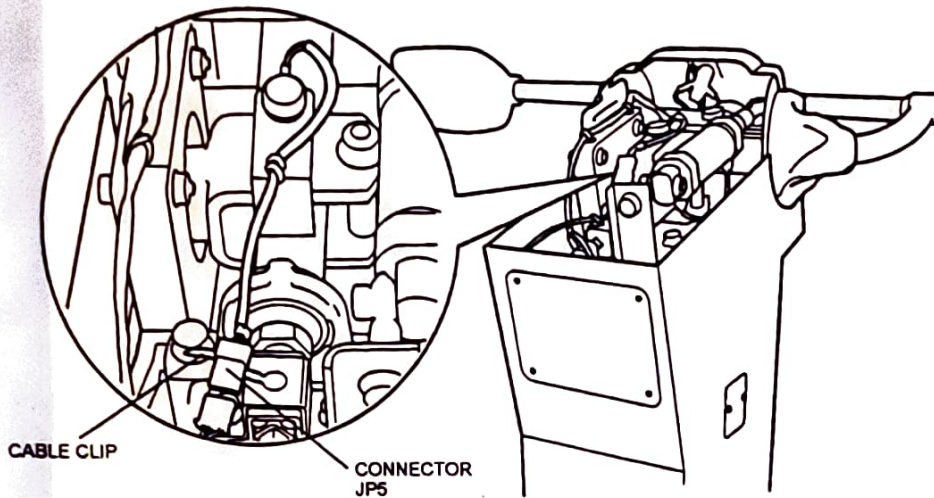
5. Replace the pot, making sure to use only the specified 1k 60 degree part.
6. Reinstall the pot assy by reversing the procedure. Before tightening the set screw, verify that the flat side of the pot shaft is perpendicular to the set screw hole.

IMPORTANT

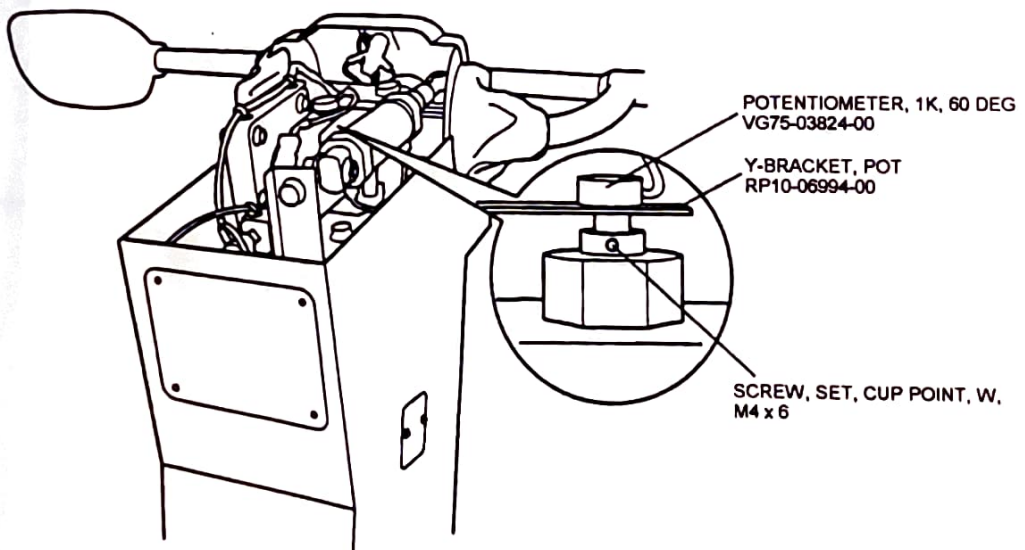
Initialize the game following installation of the new pot.

6.7 Yaw Potentiometer Replacement

- 1.** Remove control panels (A) and (B).
- 2.** Disconnect harness connector JP5, and free the harness from the cable clip(s).

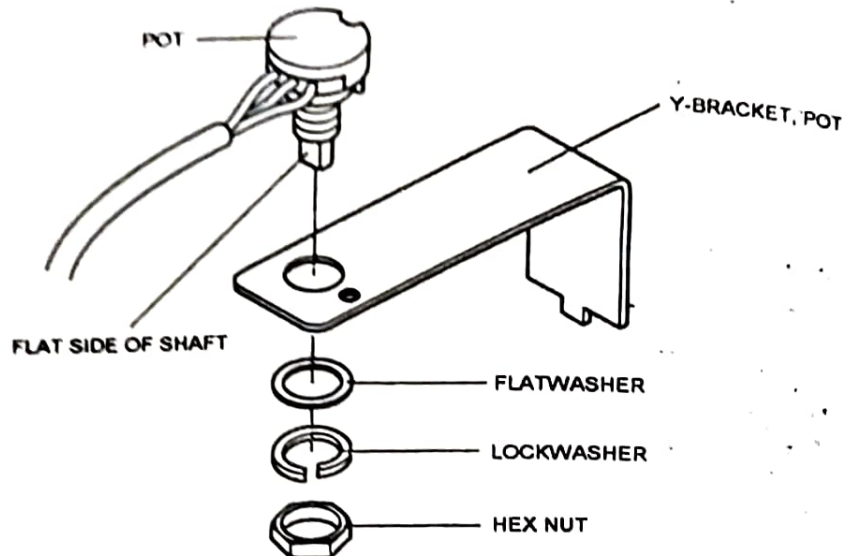


- 3.** Loosen the M4 x 6 set screw, and remove the pot and bracket.



Yaw Potentiometer Replacement (continued)

- 4.** Remove the pot from the Y-bracket.



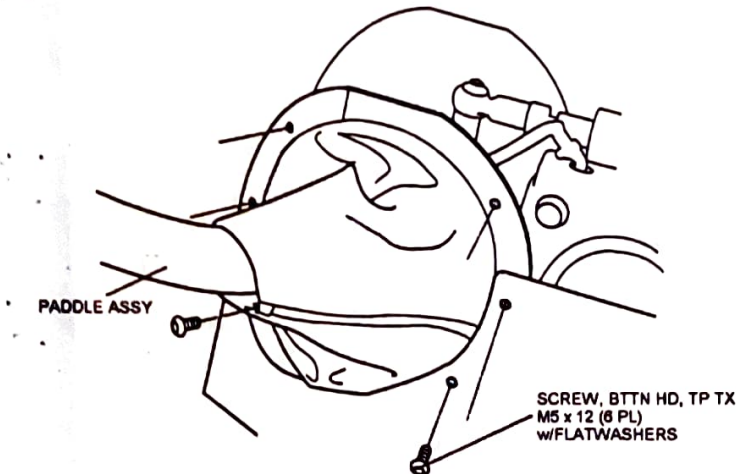
- 5.** Replace the pot, making sure to use only the specified 1k 60 degree part.
- 6.** Reinstall the pot assy by reversing the procedure. Before tightening the set screw, verify that the flat side of the pot shaft is perpendicular to the set screw hole.

IMPORTANT

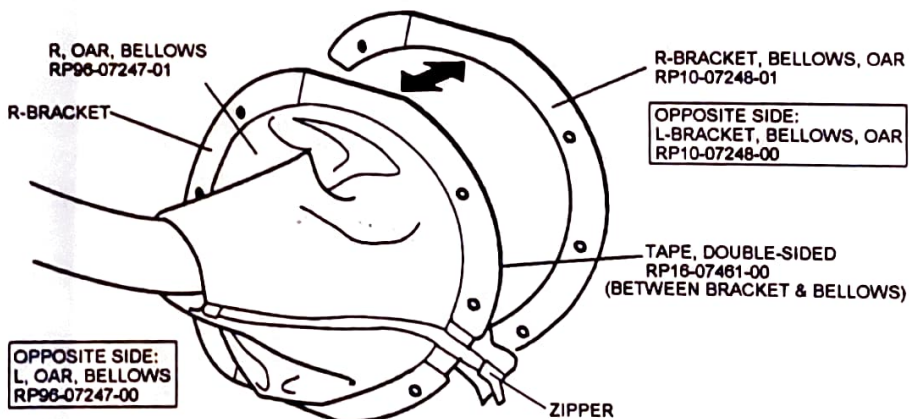
Initialize the game following installation of the new pot.

6.8 Paddle Bellows Replacement

1. Remove control panels (A) and (B).
2. Remove the 6 ea. M5 x 12 TORX TP screws that tie the two bellows brackets together.



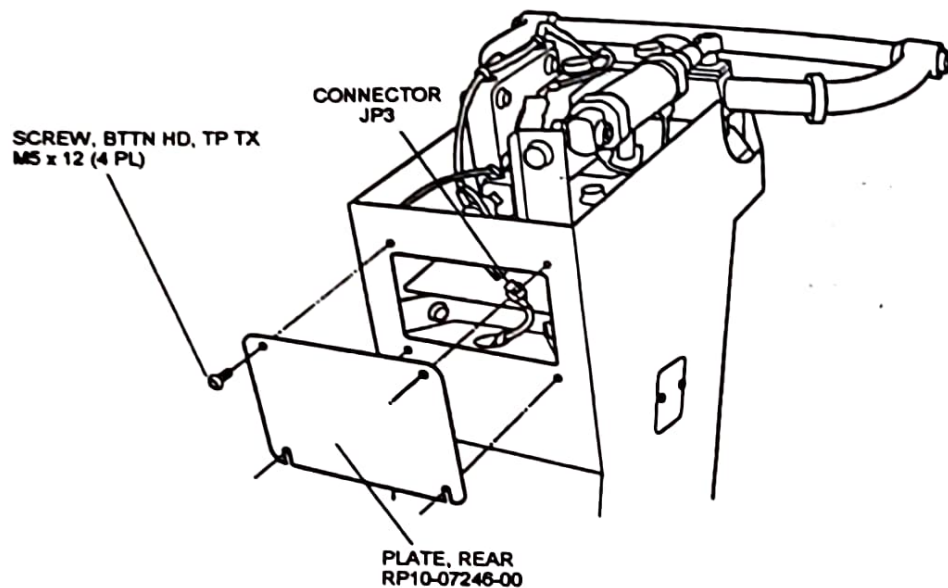
3. Separate the two bellows brackets, using care to prevent bending the metal.
4. Unzip the bellows. Work the bellows (with bracket) as a unit out over the paddle bar. Separate the bellows from the inner surface of the bracket.



5. In order to install a new bellows, the adhesive on the inner surface of the bracket must be able to hold the new material in place, with screw holes aligned, while the assembly is fitted over the paddle bar. If needed, apply a new layer of double-sided tape, trim, and punch the six holes for the screws.
6. To complete the installation, perform steps 1-3 in reverse.

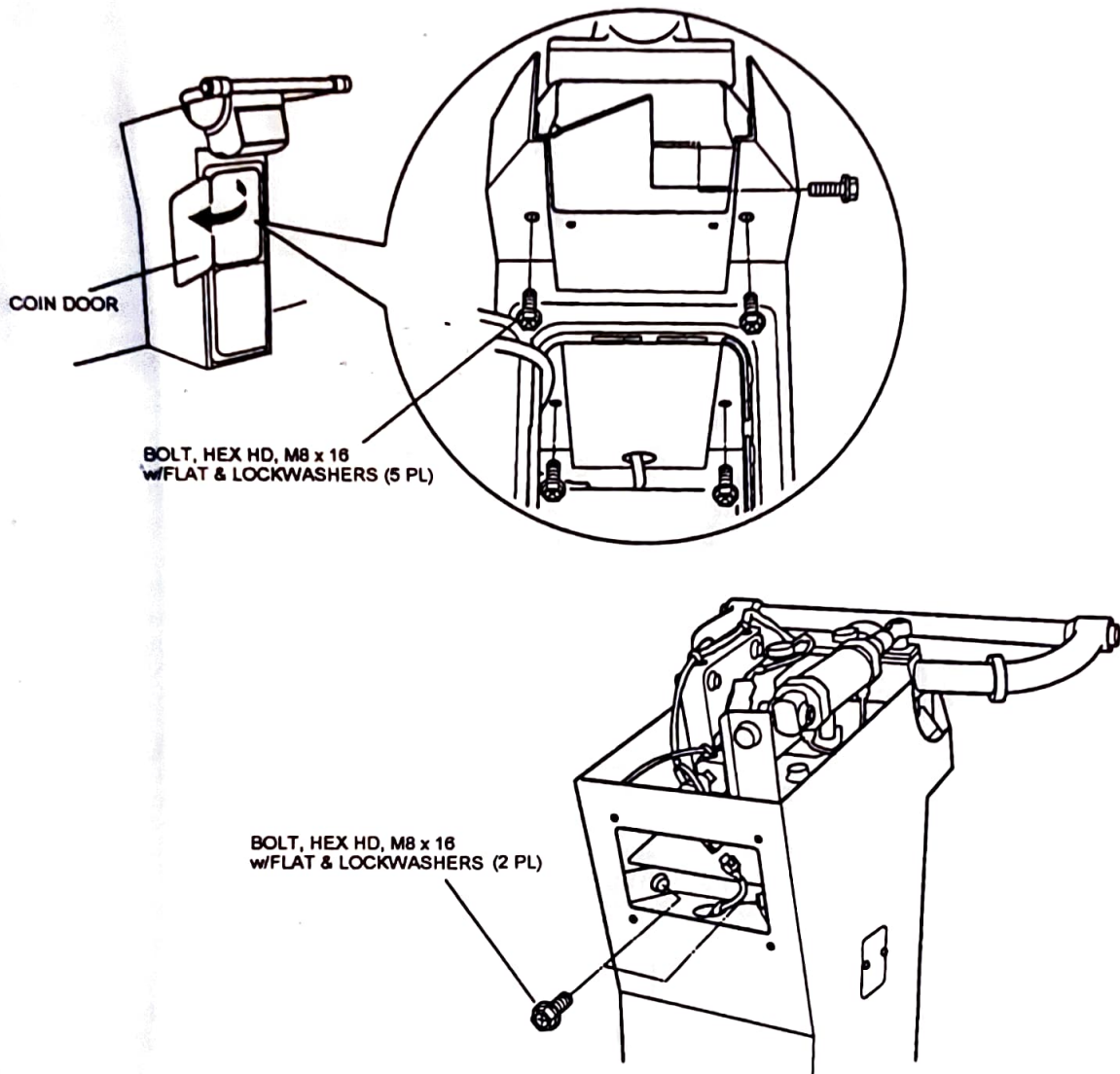
6.9 Paddle Assembly Replacement

- 1.** Remove control panels (A) and (B).
- 2.** Remove the left and right fins.
- 3.** Remove the left and right paddle bellows.
- 4.** Remove the 4 ea. M5 x 12 button-head TORX TP screws from the plate at the rear of the coin tower, and remove the plate.



Paddle Assembly Replacement (continued)

- 5.** Remove the 7 ea. M8 x 16 hex head bolts which attach the paddle assy to the coin tower, and remove the paddle assy.



- When installing the paddle assembly:
 - Attach the two rear bolts first, finger tight, and verify that the paddle assy is centered over the coin assy.
 - Install the four vertical bolts.
 - Install the side bolt.
 - Tighten the seven bolts.

Troubleshooting

Symptom		Possible Cause		Solution
No video or sound.	(1)	No AC power.	(1)	Check main 20 amp AC breaker in cord box. If it trips when turned on, disconnect the AC connections to the monitor, compressor, switching power supplies (disconnect J8 at PCB rack), fan(s), and marquee. Add these loads one at a time to isolate the cause of the overcurrent. If the breaker is OK, check voltage across line and load sides of EMI filter. Should be 110-125VAC. Verify that all connections in and around cord box are tight.
	(2)	No 12, 5, or 3.3VDC power.	(2)	On the PCB rack, verify that the 120VAC power is present across pins 1 & 2 of J8. Check the DC output voltage from the 3 power supplies. This will require removal of the rack cover, as the power supplies are inside the PCB rack assy. Output voltages should be between +/-2% of nominal. If out of tolerance, disconnect the loads at P203-P207. If the DC power is OK with the connectors off, add them one at a time to further isolate a possible short in the wiring or in one of the loads. If no-load voltage is incorrect, replace power supply(s).
No video, but sound is present at marquee speakers. Monitor does not seem to be powered-up.	(1)	Monitor is turned off.	(1)	Use handheld remote control unit to turn on power. The monitor is factory-set to turn on each time the main AC breaker is turned on. To check the "Power Restore" perform the following using the remote: ☐ Press the MENU button to get into the "TV Main Menu." ☐ Select "Customize Viewing", using the ADJUST (↓ ↑) buttons. Press the ENTER button. ☐ Select "Use Power Restore" using the ADJUST (↓ ↑) buttons. Press the ENTER button. ☐ The "Use Power Restore" screen will appear. Use the ADJUST buttons to select "On", press ENTER, and it will return to the "Customize Viewing" menu. Press the MENU button to return to the "TV Main Menu."
	(2)	Defective monitor.	(2)	Disconnect the AC power. Remove the rear panel from the projector. On the MAIN PCB, check the 5A fuse F900. If blown, do not replace it unless qualified in monitor service. <i>Attempting to perform unauthorized repair work on the monitor will put the warranty coverage at risk, and should be considered dangerous due to the presence of high voltage.</i> Note: If service is required, contact your distributor. Monitor repairs are provided through Mitsubishi's nationwide network of authorized repair centers. Namco offers a "pass along" 90-day manufacturer's warranty. For assistance in locating the nearest repair center, contact Namco Technical Support.

Troubleshooting

Symptom		Possible Cause		Solution
No video, but monitor is powered-up.	(1)	Video input to monitor is disconnected, or bad video cable.	(1)	Verify that the S-VIDEO cable is connected between the back of the monitor and the Video PCB. Verify that the correct input channel is selected on the monitor. Should be EXT-1 S-VIDEO. Check using the remote control INPUT button to toggle through the selections. NOTE: To eliminate the monitor as a source of the problem, one could provide a commercial broadcast TV signal to the ANT input, or a VCR/camera output to one of the other AUX TV inputs, and verify that the monitor CRT circuitry is OK.
	(2)	Defective Video PCB, or PCB out of adjustment.	(2)	Check the RGB and Sync connections to PCB. Verify that 12VDC is present across pins 1 & 3 of J4. Verify that the horizontal shift pot (20 turn) is adjusted CW (display may be all the way off the screen).
	(3)	Main PCB, ASCA-2A, ASCA-2B, cable, or overheating problem within the PCB rack assy.	(3)	Remove the cover from the PCB rack. Verify that the 34 and 50 pin ribbon cables, the edge connector, and the power cable at J104 are seated. Check the fan (12VDC). Swap the PCBs with known good boards.
	(4)	Broken mirror inside monitor.	(4)	This can occur after rough handling. Repair monitor.
Distorted video or screen frozen.	(1)	Main PCB problem.	(1)	Observe the behavior of the system as it goes through self-test upon power-up. The test takes about a minute to complete. Horizontal lines will scroll vertically for a few seconds, followed by CPU, RAM and ROM checks. At each of these stages OK will be displayed as the test is successfully completed. Once completed, the attract mode screen will appear. If either during the test a hangup is encountered, or at the end of the test the attract mode screen fails to appear, the main PCB needs to be checked.
	(2)	Monitor convergence problem.	(2)	This can result from rough handling. Check the fresnel and lenticular lenses (screen) on the front of the monitor, verifying that they are fully seated in the bezel. Perform convergence adjustment procedure (ref: TV owner's manual).
No audio, output is too low, or distorted.	(1)	Output level is set too low.	(1)	Individual speaker output volume can be adjusted in Test mode, SOUND TEST.
	(2)	Defective speakers.	(2)	Using ohmmeter, test for open coil (4 ohms. P203 pins 6 & 9 for left speaker, and pins 7 & 8 for right speaker).
	(3)	Defective output device on ASCA-2A PCB.	(3)	Repair PCB.

Troubleshooting

Symptom		Possible Cause		Solution
Paddle controls are offset or do not respond.	(1)	System not initialized.	(1)	Especially after replacement of any component, initialize the system: on the Service panel, while pressing the SERVICE switch, toggle the Test switch ON. Follow the on-screen instructions.
	(2)	Excitation voltage to potentiometers faulty, or incorrect feedback voltage.	(2)	Voltages and feedback to/from the horiz (yaw) and vert (roll) pots can be checked at J204 of the main PCB rack. With P204 connected, and with power on, check: ☐ Supply voltage: ADVcc (P204-10 wht/red) to GND (P204-3 wht/blk). • The reading should be 4.75 to 5.10VDC. If OK, check the pot wiper output (tolerance +/- .2VDC): ☐ Horiz (voltage at pin 5, with respect to 3) 2.5V (paddle centered) 3.8V (max. right) 0.7V (max. left) ☐ Vert (pin 4 with respect to 3) 2.5V (paddle centered) 3.8V (max. roll left) 0.7V (max. roll right) • If supply voltage to pots is low or 0V, disconnect P204 and measure again on the PCB receptacle J204. If no change, then ASCA-2A PCB assy needs repair. If supply voltage is corrected once the load is removed, or if voltages obtained from the pots are incorrect, proceed with the resistance check of pots on the paddle assy.
	(3)	Open pot, open or pinched wire, or short to ground on paddle assy.	(3)	With power off, using an ohmmeter, check the following (ride side of harness at P204; all readings +/-20%): ☐ ADVcc load (Horiz & Vert) P204 pins 10 & 3 500 ohms ☐ Horiz pot center terminal to ADVcc P204 pins 5 & 10 440 Ω (paddle centered), 250 Ω (max. right) 620 Ω (max. left) ☐ Vert pot center terminal to ADVcc P204 pins 4 & 10 440 Ω (paddle centered), 250 Ω (max. roll right), 620 Ω (max. roll left)

Troubleshooting

Symptom		Possible Cause		Solution
Paddle controls are offset or do not respond. (continued)	(4)	Open pot, open or shorted wire on paddle assy. (continued)	(4)	- If the ADVcc load resistance is around 1kΩ, either one of the pots or the wiring to it is open. Check each pin to ground: readings should be open. If not, inspect for pinched wire on cable between cabinet/ride interface plugs and paddle assy. - Center terminal readings must have the same rotational sense as indicated above. If not, the pot is wired-up backwards. - If the readings are ambiguous, fail to change, or fail to repeat as the control axis is rotated, check the pot shaft set-screw. It could be loose. - Recheck in TEST mode, I/O SWITCH test. Verify OK readings can be obtained from the controls.
	(5)	Communications error between main PCB and ASCA-2A PCB.	(5)	Check cables and edge connection between main PCB and ASCA-2A PCB inside PCB rack.
	(6)	Digitizing error.	(6)	Repair ASCA-2A assy.
Ride does not respond on one or more of the 4 air springs.	(1)	Faulty pot, pot linkage loose, faulty solenoid, air leak in base, or bad device driver on ASCA-2A PCB.	(1)	Isolate malfunctioning corner (air spring) in Test mode, RIDE TEST. Remove seat assy. Check air lines. Turn off power. Check linkages to pots, set screws, pot resistance (1k Ω across each pot), and center resistance to outer terminals. If OK, turn on power, and using manual operator (white button) on each solenoid valve, verify ported output to air springs. If it cannot be operated manually, replace solenoid valve. If solenoids operate OK manually, check voltage at 2-pin solenoid connector. Pin 2 should be 12VDC with respect to chassis ground. If pin 1 is also 12V at the time the air spring is supposed to be activated, then (active low) control signal from ASCA-2A PCB is faulty. Repair PCB.
Compressor does not run.	(1)	Blown fuse.	(1)	Unplug game and replace 10A fuse. Check for ground faults in power cord subassembly and inside pressure switch (black) box. If OK and replacement fuse blows, replace compressor subassembly. Contact your distributor.
	(2)	Defective pressure switch.	(2)	Switch is inside the black box. Compressor should turn on when pressure drops below 20-25 psi, and turn off at 30-35 psi. Check for loose adjustment screw, wiring, or burned contacts. If switch seems to be OK, check wiring to compressor motor. If motor is getting AC and does not run, replace it.

Troubleshooting

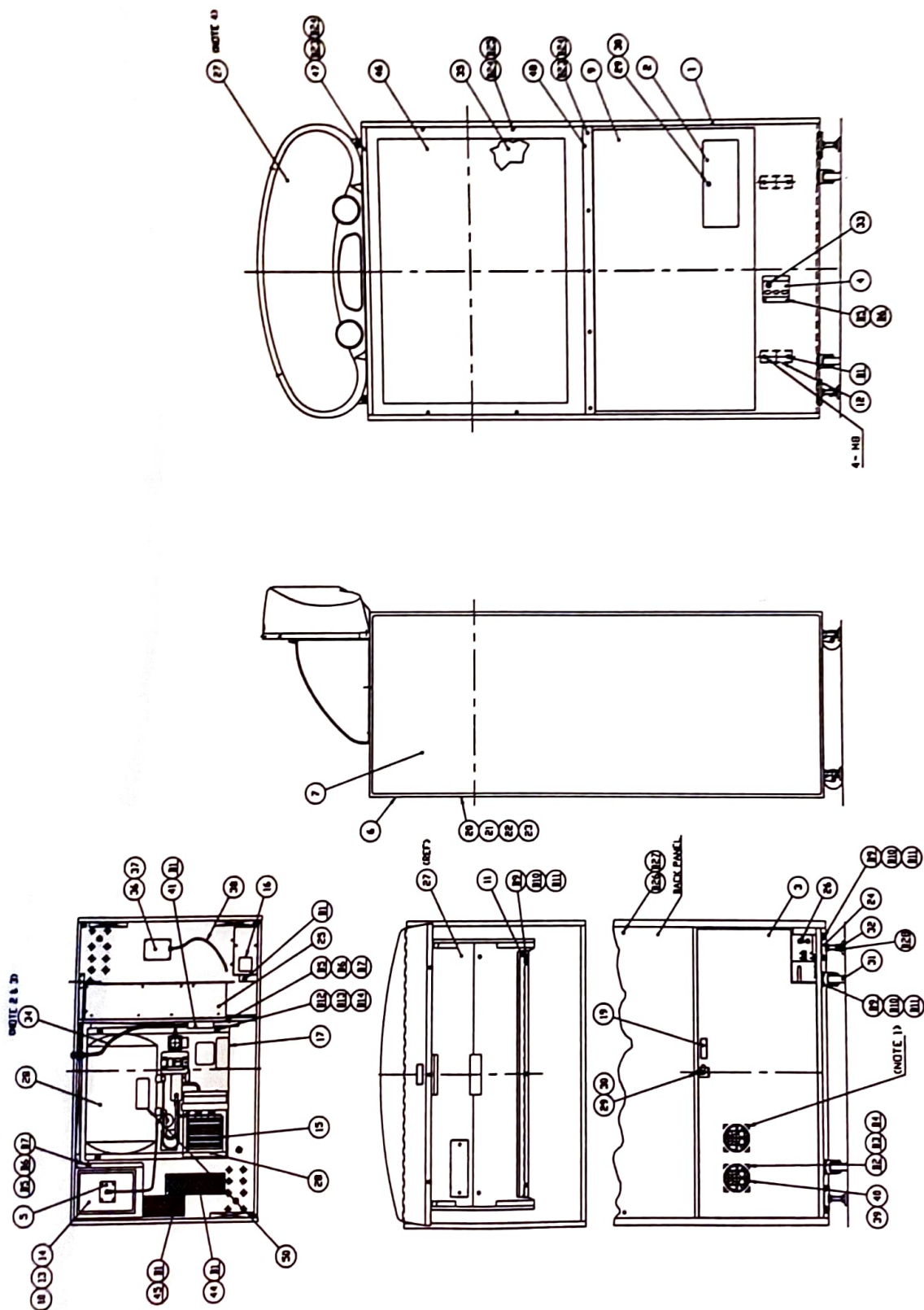
Symptom		Possible Cause		Solution
Compressor runs continuously	(1)	Loss of pressure due to leak(s). System cannot maintain pressure to the point of shutoff (approx. 100 psi on manifold gauge).	(1)	With system running, check for air loss: ❑ Through the black tube that feeds the evaporation tray. A short burst of air should be detected for about 1 second each time the compressor starts. If air is emitted continuously, then auto-drain subsystem needs servicing. Check the drain solenoid 2-way (red) valve. If it is not energized while air continues to be emitted into the evaporation tray, then the valve may be sticking open due to contamination. Remove coil and spindle and clean out the ports. ❑ From the air line/fittings between the input side of the drain solenoid and the filter/regulator bowl. If air is leaking from fittings, try reinserting tubing. ❑ From the top of the filter/regulator. Verify large nut on top is tight. If leak persists, overhaul or replace filter/regulator. ❑ From air lines or fittings within the motion base. Remove output tube from compressor assy to motion base (located on output side of filter/regulator). Plug fitting with finger, turn on compressor, and verify that compressor shuts off when up to pressure. If it does, then check the motion base for leaks. Remove seat and inspect components in and around the 4 solenoid valves.
	(2)	Defective pressure sensing switch.	(2)	Check switch contacts inside black box. High shutoff adjustment may be set too high.
	(3)	Defective solid-state timer/relay (inside white plastic box).	(3)	Check load output voltage to drain solenoid. Closure to NEUT should be made for 1 second when compressor turns on. If closure is continuous, replace timer/relay.
Water contamination of pneumatic system.	(1)	Defective auto-drain system.	(1)	Possible defective drain solenoid, solid-state timer/relay, or AC wiring to relay. Check for open solenoid coil. Verify that AC voltage is present across the +/- relay terminals.
	(2)	Air leak causing loss of pressure. Compressor never shuts off, therefore the auto-drain circuit fails to reset.	(2)	Inspect/test system for leaks.

ILLUSTRATIONS and PARTS LISTS

ASSY, CABINET, RP05-06940-00

#	PART NO.	DESCRIPTION	QTY	NOTES
1	RP63-06943-00	CABINET, WOOD	1	
2	RP63-06944-00	DOOR, FRONT	1	
3	RP63-06945-00	DOOR, BACK	1	
4	RP10-06946-00	BRACKET, CONNECTOR	1	
5	RP10-06947-00	BRACKET, TRAY	1	
6	RV10-04392-00	GRILL, VENT, LOUVERED	2	
7	RP40-06949-00	DECAL, SIDE	2	
9	RP40-06951-00	DECAL, FRONT	1	
10	TW90-05582-00	TRAY, COMPRESSOR	1	
11	AJ10-05946-00	BRACKET, MARQUEE	1	
12	AJ10-05958-00	NUT PLATE, JOINING	2	
13	VG44-05846-00	LABEL, CAUTION, DON'T DRINK WATER	1	
14	VG44-05845-00	LABEL, CAUTION, REMOVE TRAY SLOW	1	
15	VG44-05849-00	LABEL, CAUTION, COMPRESSOR MOTOR HOT	1	
16	VG44-05532-00	LABEL, DANGER HIGH VOLTAGE	1	
17	VG44-05850-00	LABEL, CAUTION, RELEASE PRESSURE	1	
19	VG44-02642-00	LABEL, SERVICE PERSONNEL ONLY	1	
20	VG46-02653-00	LABEL, FCC	1	
21	VG46-02654-00	LABEL, FBI	1	
22	VG46-02655-00	LABEL, SERIAL NUMBER	1	
23	VG46-02652-00	LABEL, U.L. (RAPID RIVER)	1	
24	VG20-06894-02	PLATE, LEVELER, 3/4-10	4	
25	RP05-06955-00	ASSY, RACK	1	
26	RP05-06956-00	ASSY, BOX, CORD	1	
27	RP05-06957-00	ASSY, MARQUEE	1	
28	VG05-07323-00	COMPRESSOR ASSY (30PSI)	1	
29	VG26-07036-00	LOCK, 1 1/8 BARREL W/ 3/8 CAM	2	
30	VG26-07037-00	ANCHOR, WASHER	2	
31	VG24-05309-00	CASTERS, 3" SWIVEL	4	
32	VG20-05344-14	LEVELER, 3/4-10 X 3.50	4	
	VG20-02701-13	NUT, HEX, 3/4-10, SZ	1	Left Rear Leg Leveler(Cord Box)
33	VG92-07324-00	UNION, BULKHEAD, 3/8	1	
34	VG92-07341-00	TUBE, BLACK, 3/8 OD, L = 600	1	
35	VG85-05266-00	TV 50" PROJ., MITSUBISHI, VS-5043	1	
		OR		
35	VG85-07340-00	TV 50" PROJ, MITSUBISHI, 50501	1	
36	VG15-06624-00	PCB, NTSC WITH VIDEO AMP	1	
37	VG20-05297-00	STAND-OFF, PCB, BLIND HOLE, 7/8 HIGH	4	
38	VG51-04028-06	CABLE, SUPER-VHS, 1.5M	1	
39	VG55-07346-00	FAN, AXIAL, 115VAC	2	
40	GT55-02248-00	GRILL, FAN	2	
41	VG67-02632-00	POWER RECEPTACLE, BRN DUPLEX	2	
42	VG17-04163-00	GREASE	A/R	
43	VG17-05167-00	LOCTITE, 242	A/R	
44	VG10-07434-00	VENT GRILL, A (L)	1	
45	VG10-07435-00	VENT GRILL, B (S)	2	
46	VG95-07441-00	COVER, MONITOR, POLYCARBONATE	1	
47	VG10-07442-00	BRACKET, RETAINER, MONITOR, UPPER	1	
48	VG10-07443-00	BRACKET, RETAINER, MONITOR, LOWER	1	
49	VG78-05265-00	ASSY, HOUSING AND FERRITE BEAD, ROUND	2	
50	VG44-07467-00	LABEL, WARNING, REMOVE AND EMPTY TANK	1	
B1	VG20-02902-10	SCREW, PAN HD, PHIL #8 X 5/8, SZ	24	(12)x4(26)x2(41)x4(44)x6(45)x8
B2	VG20-02896-48	SCREW, PAN HD PHIL, 8-32 X 3.00 ZC	8	(39) x 8
B3	VG20-02864-04	WASHER, FLAT, #8, SZ	8	(39) x 8
B4	VG20-02700-03	NUT, KEPS, 8-32 ZC	8	(39) x 8
B5	VG20-03182-25	SCREW, PAN HD, PHIL, M5 X 25, SZ	9	(4) X 3, (5) X 4, (25) X 2
B6	VG20-05520-07	WASHER, FLAT, METRIC, M5, SZ	9	(4) X 3, (5) X 4, (25) X 2

ASSY, CABINET (RP05-06940-00)



NOTE:

- 1) INSERT GROUND TERMINAL BETWEEN B3 AND B4.
- 2) AFTER INSERTING TUBING INTO THE PIPE JOINT PULL TO MAKE SURE THEY DO NOT COME OUT.
- 3) MAKE SURE TUBING IS NOT BENT.
- 4) MARQUEE (RPM5-06957-00) IS TO BE PACKED SEPARATELY. MARQUEE MOUNTING HARDWARE PROVIDED IN CONVENIENCE KIT.

ASSY, CABINET, RP05-06940-00

#	PART NO.	DESCRIPTION	QTY	NOTES
B7	VG20-05521-07	WASHER, SPLIT LK, M5, SZ	9	(4) X 3, (5) X 4, (25) X 2
B8	VG20-04713-20	SCREW, LPW #8 X 1 1/4 BO	2	(3) X 2
B9	VG20-05360-25	BOLT, HEX HD, M6 X 25, SZ	35	(11)X3,(24)X16,(31)X16
B10	VG20-05520-08	WASHER, FLAT, METRIC, M6, SZ	35	(11)X3,(24)X16,(31)X16
B11	VG20-05521-08	WASHER, SPLIT LK, M6, SZ	35	(11)X3,(24)X16,(31)X16
B12	VG20-05360-25	BOLT, HEX HD, M6 X 25, SZ	4	(28) X 4
B13	VG20-05520-08	WASHER, FLAT, METRIC, M6, SZ	4	(28) X 4
B14	VG20-05521-08	WASHER, SPLIT LK, M6, SZ	4	(28) X 4
B16	VG20-05524-06	WASHER, LOCK, STAR, INTERNAL, M4, SZ	2	Ground X 2
B20	VG20-05529-06	NUT, FLANGE, SERRATED, M4, SZ	2	Ground X 2
B21	VG20-02905-08	SCREW, PAN HD, PHIL, #6 X 1/2, BO	12	(6) x 12
B23	VG20-05260-25	SCREW, BTTN HD, TP, M5X25, BO	10	(47) x 5, (48) x 5
B24	VG20-02865-05	WASHER, FLAT, #10 BO	14	(46) x 4, (47) x 5, (48) x 5
B25	VG20-02906-10	SCREW, PAN HD, PHIL #8 X 5/8, BO	4	(46) x 4
B26	VG20-03182-40	SCREW, PAN HD, PHIL, M5 X 40, SZ	4	(3) x 4
B27	VG20-02864-05	WASHER, FLAT, #10, SZ	4	(3) x 4
	RP50-07032-00	HARNESS, OVERALL	1	
	RP50-07003-00	HARNESS, POWER TO COMPRESSOR & TV	1	
	RP50-07004-00	HARNESS, ACLINE EXT	1	
	RP50-07005-00	HARNESS, TO AC FAN AND MARQUEE LIGHT	1	
	RP50-07007-00	HARNESS, TO AC FAN MOTOR	1	
	RP50-07009-00	HARNESS, TO R.G.B.	1	
	RP50-07010-00	HARNESS, TO MARQUEE SPEAKER EXT	1	
	RP50-07012-00	HARNESS, CPU TO CONTROL PANEL	1	
	RP50-07017-00	HARNESS, CPU/TO SERVICE PANEL & COIN DOOR	1	
	RP50-07021-00	HARNESS, CPU/TO MOTION BASE	1	
	RP50-07030-00	HARNESS, CPU/TO NTSC P.C.B.	1	

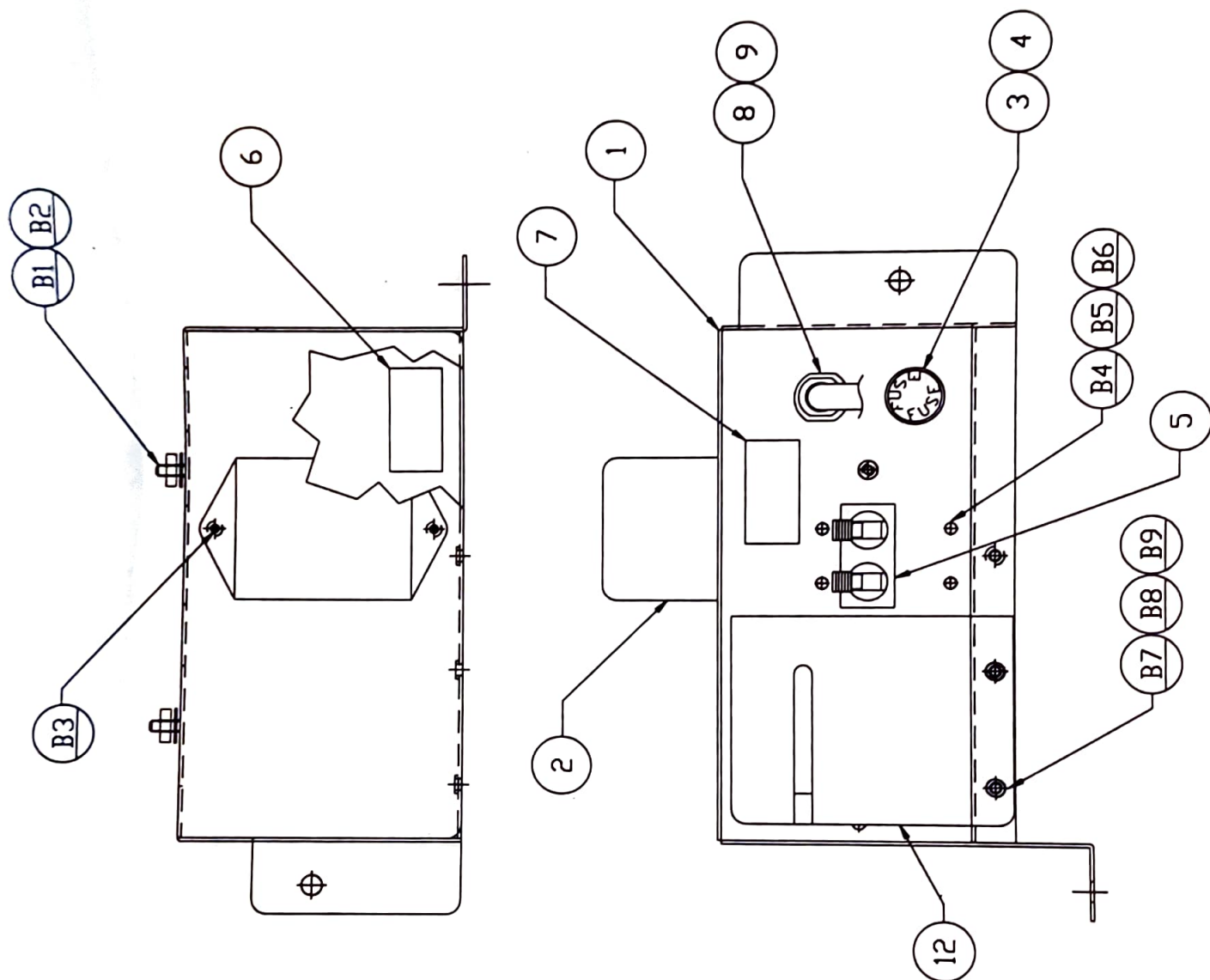
ASSY, RACK, RP05-06955-00

#	PART NO.	DESCRIPTION	QTY	NOTES
	RP05-06955-00	ASSY, RACK	1	
	RP05-06960-00	ASSY, V187 GAME PCB	1	
		V187 MAIN PCB ASSY	1	
		GORgON MAIN PCB ASSY	1	
		GORgON MSPM (F) PCB ASSY	1	
		V187 MEM PCB ASSY	1	
		GORgON MEM (M1) PCB ASSY	1	
		PCB ASSY, ASCA-2A	1	
		PCB ASSY, ASCA-2B	1	
	RP88-06923-00	POWER SUPPLY, SWITCHING, 3.3V, 6A	1	
	RP88-06920-00	POWER SUPPLY, SWITCHING, 5V 15A	1	
	RP88-06921-00	POWER SUPPLY, SWITCHING, 12V 4.3A	1	
	VG55-07438-00	FAN, AXIAL	1	
		NOISE FILTER	1	
	VG67-07351-00	EI SERIES 2 PIN HOUSING	1	
	VG67-07352-00	EI SERIES PIN CONTACT	1	
		HARNESS, RACK 1	1	
		HARNESS, RACK 2	1	
		HARNESS, RACK 3	1	
		HARNESS, PS 34	1	
		HARNESS, PS50	1	
B1	VG20-03180-08	SCREW, PAN HD, PHIL, M3 X 8, SZ	12	Power Supplies x 12
B2	VG20-05520-04	WASHER, FLAT, M3, SZ	12	Power Supplies x 12
B3	VG20-05521-04	WASHER, SPLIT LK, M3, SZ	12	Power Supplies x 12
B4	VG20-03181-35	SCREW, PAN HD, PHIL, M4 X 35, SZ	4	DC Fan X 4
B6	VG20-05521-06	WASHER, SPLIT LK, M4, SZ	4	DC Fan X 4
B6	VG20-05520-06	WASHER, FLAT, M4, SZ	4	DC Fan X 4
B7	VG20-05529-06	NUT, FLANGE, SERRATED, M4, SZ	5	DC Fan X 4, Ground X 1
B8	VG20-05524-06	WASHER, LOCK, STAR, INTERNAL, M4, SZ	1	Ground X 2

ASSY, CORD BOX, RP05-06956-00

#	PART NO.	DESCRIPTION	QTY	NOTES
1	RP10-07342-00	CORD, BOX	1	
2	GT66-02020-00	EMI FILTER, 20 AMP	1	
3	VG52-03365-00	FUSE, HOLDER, PANEL MOUNT	2	
4	VG52-03584-12	FUSE, 10A, 250V, SB	1	
5	GT65-02031-00	CIRCUIT BREAKER, W68X2Q-1-2-20	1	
6	VG44-02644-04	LABEL, 10AMP, 250V, SLOW BLOW	1	
7	VG44-03851-00	LABEL FUSE REPLACEMENT	1	
8	VG95-05819-00	STRAIN RELIEF, HEYCO# 7N-2	1	
9	VG50-06600-00	POWER CORD	1	
10	RP50-07001-00	HARNESS, POWER PLATE	1	
11	RP50-07002-00	HARNESS, FROM EMI FILTER	1	
12	RP10-07425-00	COVER, LINK	1	
B1	VG20-05524-06	WASHER, LOCK, STAR, INTERNAL, M4, SZ	2	Gnd x 2
B2	VG20-05529-06	NUT, FLANGE, SERRATED, M4, SZ	2	Gnd x 2
B3	VG20-03180-10	SCREW, PAN HD, PHIL, M3 X 10, SZ	2	EMI x 2
B4	VG20-02895-04	SCREW, PAN HD, PH, 6-32X1/4, SZ	2	Circuit Breaker x 2
B5	VG20-02864-03	WASHER, FLAT, #6, SZ	2	Circuit Breaker x 2
B6	VG20-02862-03	WASHER, SPLIT LOCK, #6, SZ	2	Circuit Breaker x 2
B7	VG20-03181-10	SCREW, PAN HD, PHIL, M4 X 10, SZ	2	(12) x 2
B8	VG20-05521-06	WASHER, SPLIT LK, M4, SZ	2	(12) x 2
B9	VG20-05520-06	WASHER, FLAT, M4, SZ	2	(12) x 2

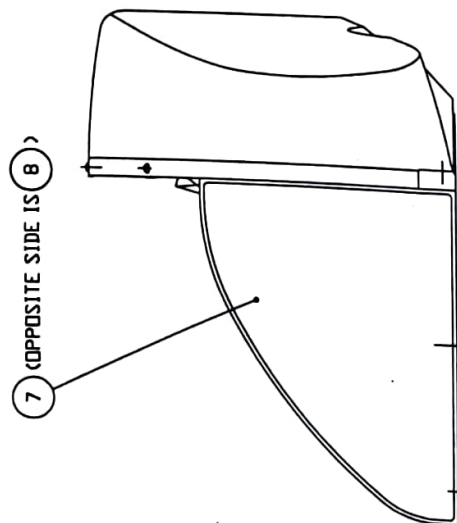
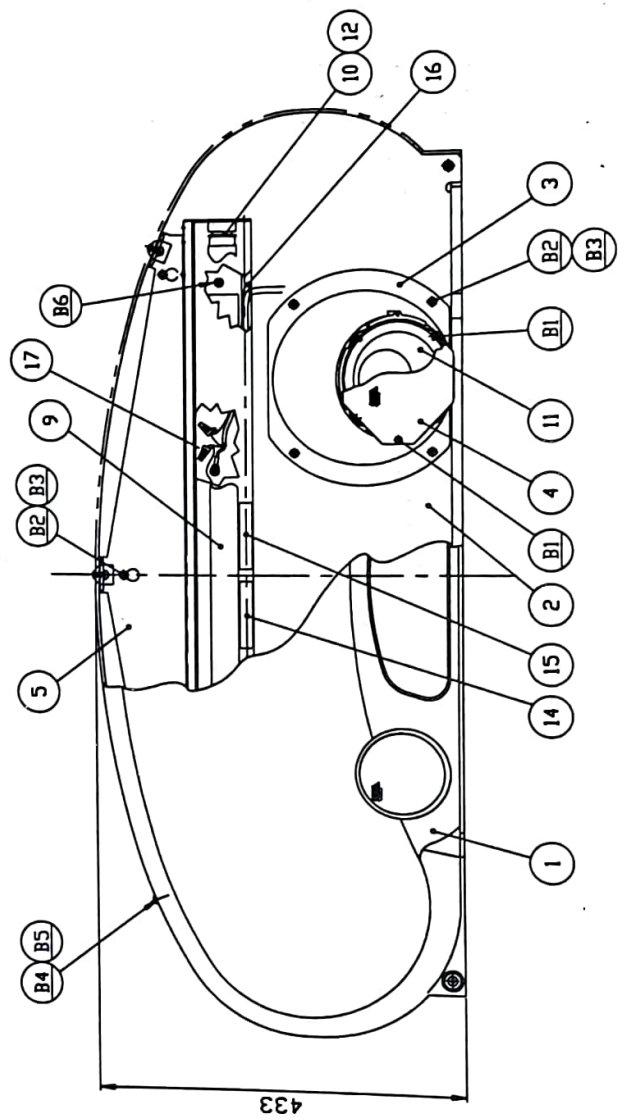
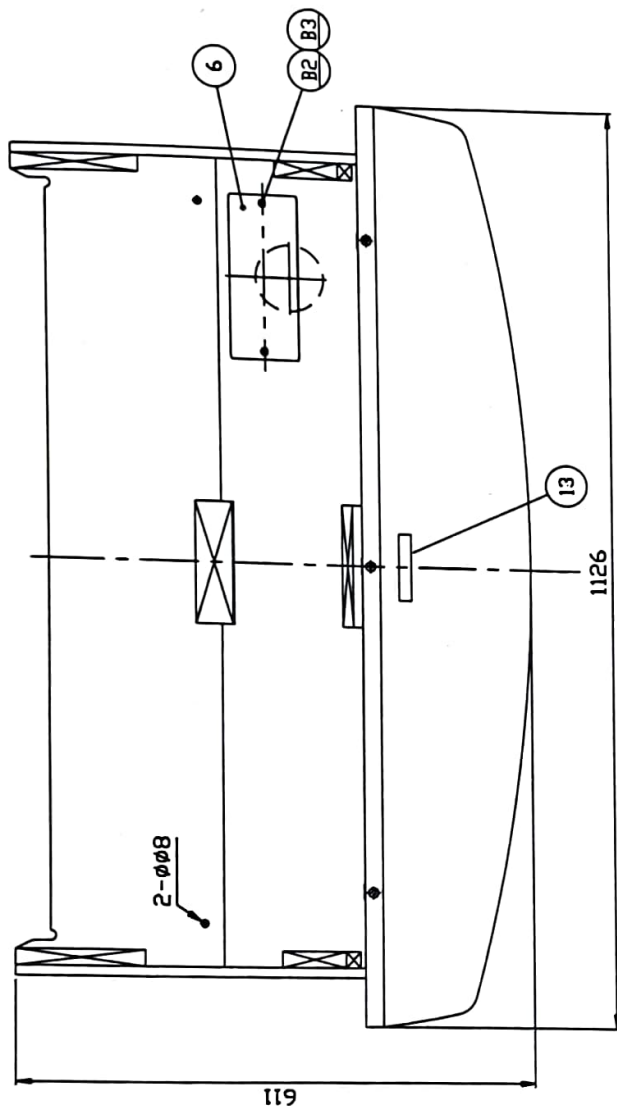
ASSY, BOX, CORD (RP05-06956-00)



ASSY, MARQUEE, RP05-06957-00

#	PART NO.	DESCRIPTION	QTY	NOTES
1	RP95-07000-00	PANEL, MARQUEE	1	
	RP90-07054-00	PLASTIC, MARQUEE	1	
	RP40-07055-00	DECAL, MARQUEE	1	
	RP40-07056-00	DECAL, LOGO	1	
2	RP63-06962-00	BASE, MARQUEE	1	
3	RP90-06963-00	BASE, SPEAKER	2	
4	RP10-06964-00	COVER, SPEAKER	2	
5	RP10-06965-00	BRACKET, NUT	1	
6	RP10-06966-00	COVER, CONNECTOR	1	
7	RP40-06967-00	DECAL, SIDE (L)	1	
8	RP40-06967-01	DECAL, SIDE (R)	1	
9	VG57-02028-00	LAMP, FLUORESCENT, 24"	1	
10	VG57-02025-00	FIXTURE, FLUORESCENT, 24"	1	
11	VG54-06918-00	SPEAKER, 4 OHM 50 W, 5 1/4 DIA.	2	
12	GT57-02219-00	LOCK, FLUORESCENT	2	
13	VG44-02642-00	LABEL, SERVICE PERSONNEL ONLY	1	
14	VG44-03850-00	LABEL, LAMP REPLACEMENT	1	
15	VG44-02644-06	LABEL, VALUE, 115V, 20W	1	
16	VG95-02117-00	GROMMET, RICHCO HOLE # HG-14	1	
17	GT67-02342-00	CONNECTOR, WIRE NUT, 16-22 AWG	2	
18	RP50-07006-00	HARNESS, TO MARQUEE LIGHT EXT	1	
19	RP50-07011-00	HARNESS, TO MARQUEE SPEAKER	1	
20	RP50-07033-00	HARNESS, TO MARQUEE LIGHT	1	
B1	VG20-02904-08	SCREW, PAN HD, PHIL, #10 X 1/2, SZ	12	(4) X 4, (11) X 8
B2	VG20-03182-16	SCREW, PAN HD, PHIL, M5 X 16, SZ	13	(3) X 8, (5) X 3, (6) X 2
B3	VG20-05520-07	WASHER, FLAT, METRIC, M5, SZ	13	(3) X 8, (5) X 3, (6) X 2
B4	VG20-05260-12	SCREW, BTTN HD, TP, M5X12, BO	5	(1) X 5
B5	VG20-05522-07	WASHER, FLAT, M5, BO	5	(1) X 5
B6	VG20-02902-10	SCREW, PAN HD, PHIL #8 X 5/8 SZ	2	(10) X 2

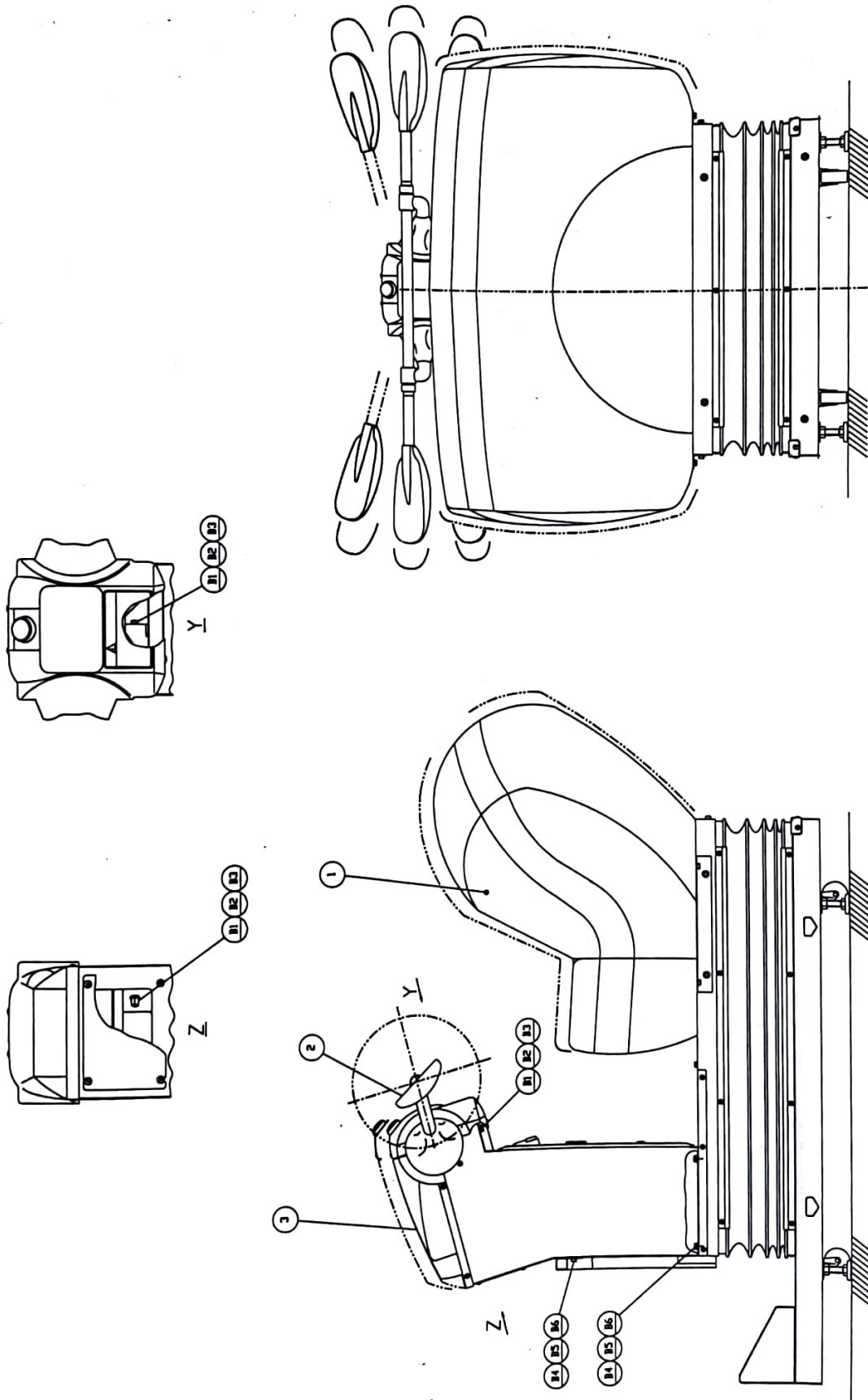
ASSY, MARQUEE (RP05-06957-00)



ASSY, RIDE, RP05-06941-00

#	PART NO.	DESCRIPTION	QTY	NOTES
1	RP05-06968-00	ASSY, BASE, MOTION	1	
2	RP05-06969-00	ASSY, PADDLE	1	
3	RP05-06970-00	ASSY, COIN	1	
B1	VG20-05253-16	BOLT, HEX HD, M8 X 16, SZ	7	(2) X 7
B2	VG20-05521-09	WASHER, SPLIT LK, M8, SZ	7	(2) X 7
B3	VG20-05520-09	WASHER, FLAT, M8, SZ	7	(2) X 7
B4	VG20-06270-25	SCREW, SKT HD, M10 X 25, BO	6	(3) X 6 to coin lower
B5	VG20-05522-10	WASHER, FLAT, M10, BO	6	(3) X 6 to coin lower
B6	VG20-05523-10	WASHER, SPLIT LK, M10, BO	6	(3) X 6 to coin lower

ASSY, RIDE (RP05-06941-00)

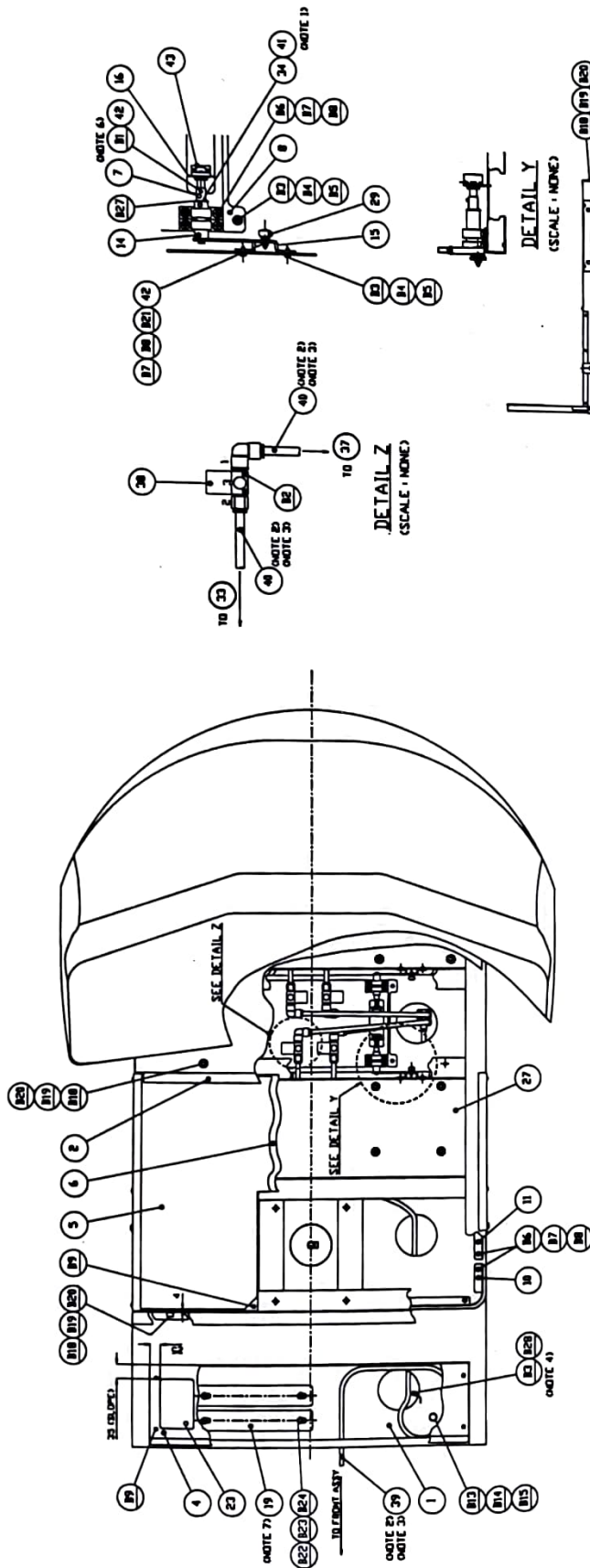


NOTE:
 1. THE MOVEMENT ANGLE FOR THE RIDE ASSY.
 BACKWARDS/FORWARDS SWING ANGLE 3.2 EACH TOTAL 6.4
 LEFT/RIGHT SWING ANGLE 3.2 EACH TOTAL 6.4
 UP/DOWN STROKE MOVEMENT 37MM

ASSY, MOTION BASE, RP05-06968-00

#	PART NO.	DESCRIPTION	QTY	NOTES
1	RP10-06971-00	JOINT	1	
2	RP10-06972-00	BASE, SEAT	1	
3	RP10-06973-00	FENCE	1	
4	RP10-06974-00	COVER, JOINT	1	
5	RP01-06975-00	MAT. FLOOR	1	
6	RP10-06976-00	BOARD, FLOOR	4	
7	RP10-06977-00	ARM	1	
8	RP10-06978-00	BOARD, CONTROL	2	
9	RP10-06979-00	GUIDE, MAT	4	
10	RP10-06980-00	BKS, BELLOWS	4	
11	RP10-06981-00	BKL, BELLOWS	4	
12	RP10-06982-00	HOLDER, BELLOWS, L	4	
13	RP10-06983-00	HOLDER, BELLOWS, S	8	
14	RP10-06984-00	SPACER, ARM	4	
15	RP10-06985-00	BRACKET, LINK	4	
16	RP10-06986-00	BRACKET, POT	2	
18	RP10-06988-00	BRACKET, SEAT	4	
19	RP10-06989-00	HARDWARE, SECURING	1	
20	RP07-06990-00	BELLOWS, BASE	4	
21	VG40-06882-00	DECAL, FORK	2	
23	VG40-07228-00	DECAL, CAUTION (DO NOT STAND)	2	
24	AR90-06391-00	COVER, POINT (S)	1	
26	RP10-07371-00	BASE, UNDER	1	
27	RP10-07372-00	FRAME, UPPER	1	
28	RP05-07370-00	ASSY, SEAT	1	
	RP00-07232-00	PLASTIC, SEAT ASSY	1	
	RP00-07272-00	SEAT TOP	1	
	RP00-07273-00	SEAT BOTTOM	1	
	RP63-07369-00	WOOD FRAME, SEAT	3	
	RP10-07431-00	DISK, SEAT	4	
29	RP11-07178-00	ROD, LINK	4	
30	VG24-05309-00	CASTER, SWIVEL, 3" WHEEL	4	
31	VG20-05344-14	LEG, LEVELER, 3/4-10 X 3.50	4	
32	VG96-07292-00	RUBBER STOPPER, RI-45	4	
33	VG96-06876-00	AIR SPRING, W/PLATE	8	
34	VG59-07385-00	PILLOW, OILESS	4	
35	VG92-07327-00	ELBOW, 3/8"	1	
36	VG92-07328-00	UNION A, 3/8"	2	
37	VG92-07332-00	BRANCH, UNION Y	4	
38	VG92-07325-00	SOLENOID VALVE ASSY	1	
	VG92-07437-00	STRAIGHT, 3/8", PC3/8-NIU	1	
	AJ92-05915-00	ELBOW, 3/8", PL3/8-NIU	1	
	VG92-07432-00	SILENCER	1	
39	VG92-07330-00	TUBE, BLACK, 3/8 OD, L-1700mm	8	
40	VG92-07330-01	TUBE, BLACK, 3/8 OD, L-420mm	A/R	
41	VG17-04163-00	GREASE, LITHIUM	A/R	
42	VG17-05167-00	LOCTITE, 242	4	
43	VG75-07050-00	POTENTIOMETER, 1K, 280 DEGREES		
	RP50-07008-00	HARNESS, CPU TO R.G.B. & MARQUEE SPEAKER	1	
	RP50-07013-00	HARNESS, TO CONTROL PANEL EXT	1	
	RP50-07018-00	HARNESS, TO SERVICE PNL & COIN DOOR EXT	1	
	RP50-07022-00	HARNESS, TO MOTION BASE EXT	1	
	RP50-07023-00	HARNESS, TO MOTION BASE	1	
	RP50-07026-00	HARNESS, TO FRONT RIGHT POT	1	
	RP50-07027-00	HARNESS, TO FRONT LEFT POT	1	
	RP50-07028-00	HARNESS, TO BACK RIGHT POT	1	
	RP50-07029-00	HARNESS, TO BACK LEFT POT	1	

ASSY, BASE, MOTION (RP05-06968-00)

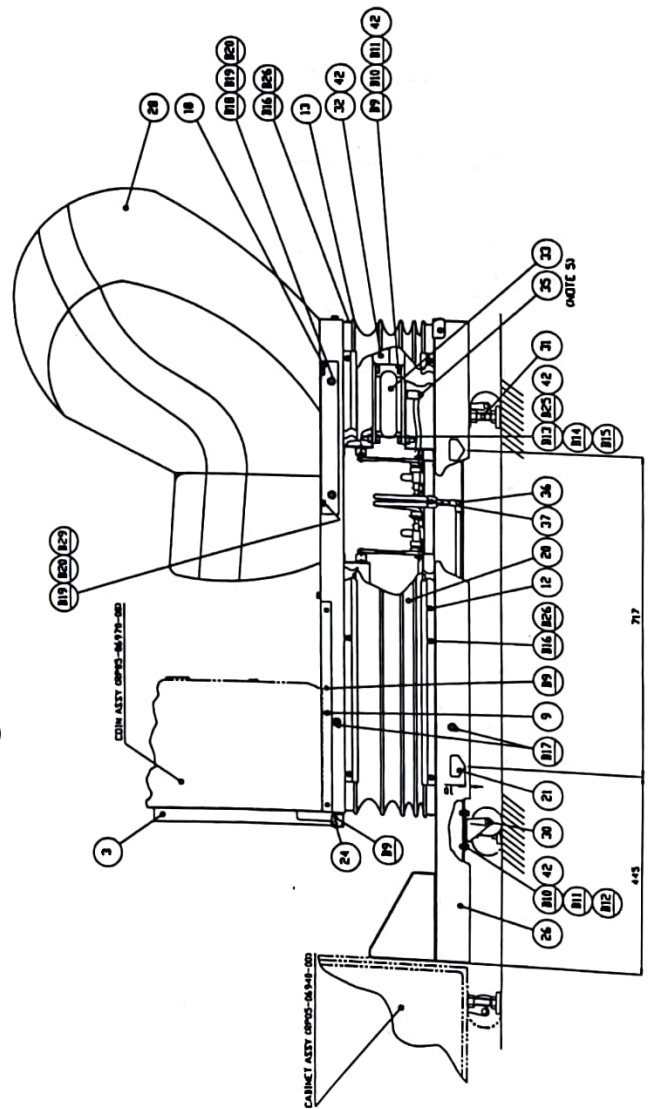


DETAIL Y
(SCALE: NONE)

DETAIL Z
(SCALE: NONE)

NOTES:

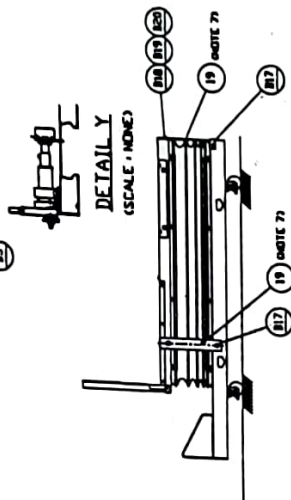
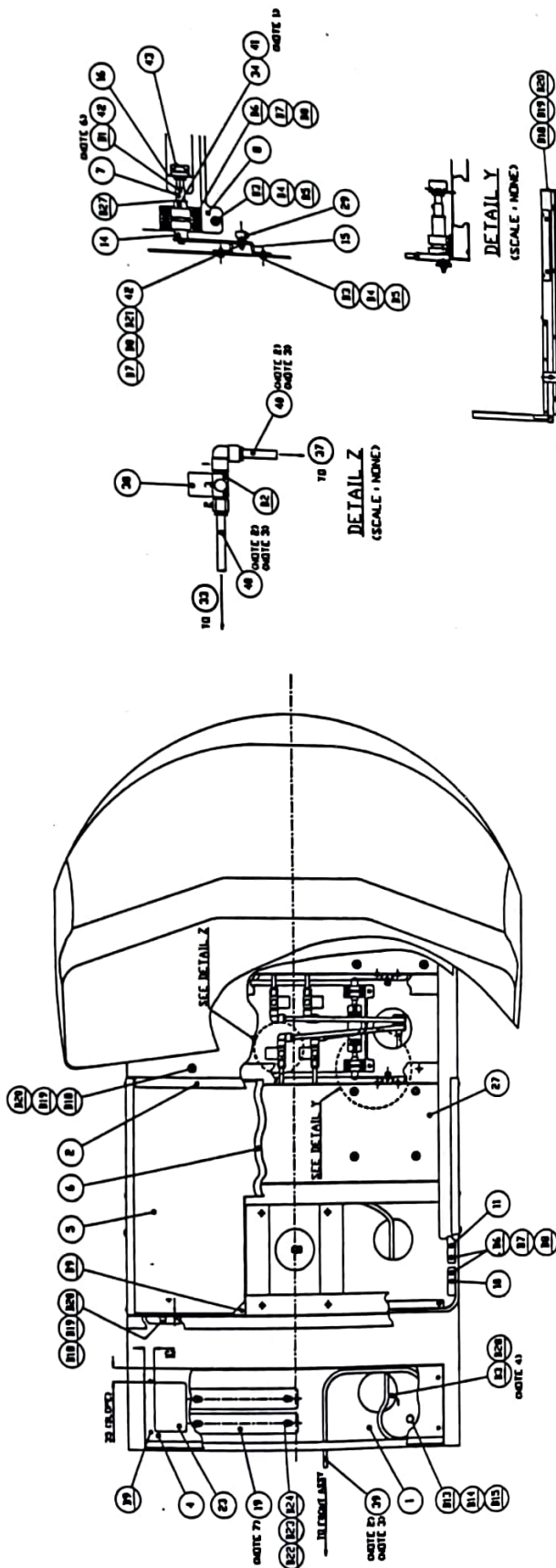
- 1) THINLY APPLY GREASE BETWEEN INSIDE OF 34 AND 7.
- 2) AFTER INSERTING 39 AND 40 INTO PIPE JOINT, MAKE SURE THAT IT WILL NOT COME OUT BY PULLING IT.
- 3) ATTACH 39 AND 40 WITHOUT ANY BEND.
- 4) GROUND TERMINAL IS INSERTED BETWEEN B3 AND B28.
- 5) USE TORQUE 12-14N-M (120-140KGF/CM) FOR ATTACHING 35.
- 6) ATTACH FLAT SURFACE OF POTENTIOMETER SHAFT AND B1 PERPENDICULAR TO EACH OTHER.
- 7) ATTACH 19 FOR SHIPPING (AS SHOWN IN DIAGRAM ABOVE) FOR SHIPPING.
- 8) MOVING ANGLE OF MOTION BASE ASSY: FRONT/BACK EACH 3.2° TOTAL 6.4° LEFT/RIGHT EACH 3.2° TOTAL 6.4° UP/DOWN STROKE 37MM



ASSY, MOTION BASE, RP05-06968-00

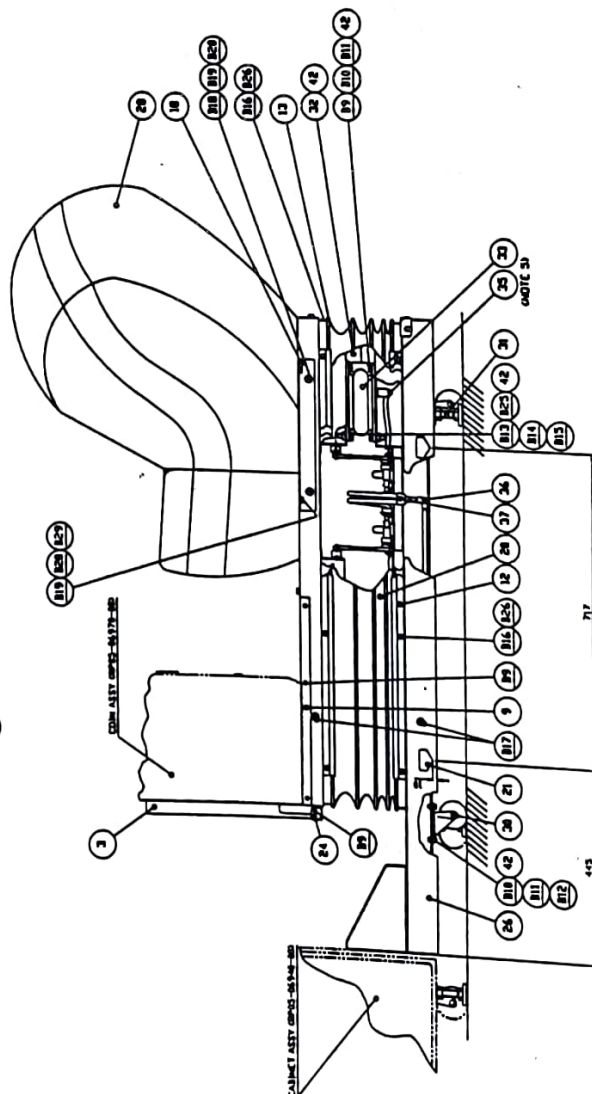
#	PART NO.	DESCRIPTION	QTY	NOTES
B1	VG20-06277-06	SCREW, SET, CUP POINT, W, M4 X 6, BO	4	(7) X 4
B2	VG20-03180-25	SCREW, PAN HD, PHIL, M3 X 25 SZ	8	(38) X 8
B3	VG20-03181-10	SCREW, PAN HD, PHIL, M4 X 10, SZ	13	(8) X 4, (15) X 8, Ground X 1
B4	VG20-05520-06	WASHER, FLAT, M4, SZ	12	(8) X 4, (15) X 8
B5	VG20-05521-06	WASHER, SPLIT LK, M4, SZ	12	(8) X 4, (15) X 8
B6	VG20-03182-10	SCREW, PAN HD, PHIL, M5 X 10, SZ	56	(10) X 24, (11) X 16, (34) X 16
B7	VG20-05520-07	WASHER, FLAT, M5, SZ	64	(10) X 24, (11) X 16, (29) X 8, (34) X 16
B8	VG20-05521-07	WASHER, SPLIT LK, M5, SZ	64	(10) X 24, (11) X 16, (29) X 8, (34) X 16
B9	VG20-06308-12	SCREW, BTTN HD, TP TX, M5 X 12, BO	16	(4) X 4, (6) X 2, (9) X 6, (24) X 4
B10	VG20-05360-16	BOLT, HEX HD, M6 X 16, SZ	16	(30) X 16
B11	VG20-05520-08	WASHER, FLAT, M6, SZ	16	(30) X 16
B12	VG20-05521-08	WASHER, SPLIT LK, M6, SZ	16	(30) X 16
B13	VG20-05258-25	BOLT, HEX HD, 10 X 30 SZ	36	(1) X 4, (33) X 32
B14	VG20-05520-10	WASHER, FLAT, M10, SZ	36	(1) X 4, (33) X 32
B15	VG20-05521-10	WASHER, SPLIT LK, M10, SZ	36	(1) X 4, (33) X 32
B16	VG20-06458-10	SCREW, BTTN HD, HEX, M4 X 10, BO	28	(12) X 16, (13) X 12
B17	VG20-06463-20	SCREW, BTTN HD, HEX, M10 X 20, BO	6	(19) X 6
B18	VG20-06270-25	SCREW, SKT HD, M10 X 25, BO	12	(2) X 5, (3) X 3, (18) X 4
B19	VG20-05522-10	WASHER, FLAT, M10, BO	12	(2) X 5, (3) X 3, (18) X 4
B20	VG20-05523-10	WASHER, SPLIT LK, M10, BO	12	(2) X 5, (3) X 3, (18) X 4
B21	VG20-05519-07	NUT, HEX, M5, SZ	14	(29) X 8, SEAT TO WOOD X 6
B22	VG20-05519-09	NUT, HEX, M8, SZ	4	(19) X 4
B23	VG20-05520-09	WASHER, FLAT, M8, SZ	4	(19) X 4
B24	VG20-05521-09	WASHER, SPLIT LK, M8, SZ	4	(19) X 4
B25	VG20-05519-10	NUT, HEX, M10, SZ	16	(33) X 16
B26	VG20-05522-06	WASHER, FLAT, M4, BO	28	(12) X 16, (13) X 12
B27	VG20-07384-00	RINGS, RETAINING (E TYPE) 8mm Dia.	4	(7) X 4
B28	VG20-05524-06	WASHER, LOCK, STAR, INTERNAL, M4, SZ	1	Gnd x 1
B29	VG20-05658-35	SCREW, SKT HD, M8 X 35, BO	6	(28) X 6
B30	VG20-05522-09	WASHER, FLAT, M8, BO	6	(28) X 6
B31	VG20-05523-09	WASHER, SPLIT LK, M8, BO	6	(28) X 6

ASSY, BASE, MOTION (RP05-06968-00)



NOTES:

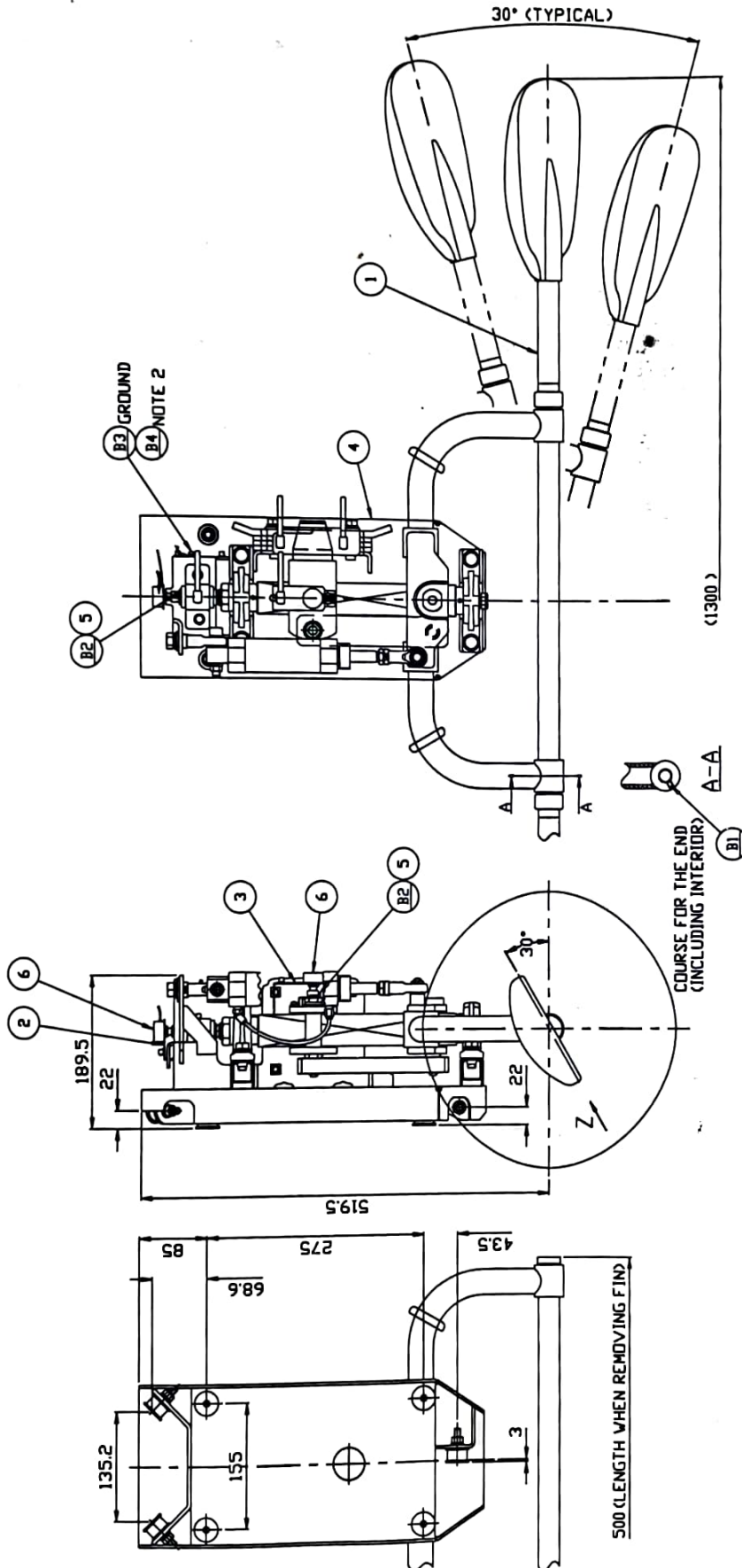
- 1) THINLY APPLY GREASE BETWEEN INSIDE OF 34 AND 7.
- 2) AFTER INSERTING 39 AND 40 INTO PIPE JOINT, MAKE SURE THAT IT WILL NOT COME OUT BY PULLING IT.
- 3) ATTACH 39 AND 40 WITHOUT ANY BEND.
- 4) GROUND TERMINAL IS INSERTED BETWEEN B3 AND B28.
- 5) USE TORQUE 12-14N-M (120-140KGF/CM) FOR ATTACHING 35.
- 6) ATTACH FLAT SURFACE OF POTENTIOMETER SHAFT AND B1 PERPENDICULAR TO EACH OTHER.
- 7) ATTACH 19 FOR SHIPPING (AS SHOWN IN DIAGRAM ABOVE) FOR SHIPPING.
- 8) MOVING ANGLE OF MOTION BASE ASSY: FRONT/BACK EACH 3.2° TOTAL 6.4° LEFT/RIGHT EACH 3.2° TOTAL 6.4° UP/DOWN STROKE 37MM



ASSY, PADDLE, RP05-06969-00

#	PART NO.	DESCRIPTION	QTY	NOTES
1	RP96-06991-00	FIN	2	
2	RP10-06993-00	R-BRACKET, POT	1	
3	RP10-06994-00	Y-BRACKET, POT	1	
4	RP05-06995-00	UNIT, PADDLE	1	
5	VG17-05167-00	LOCTITE, 242	A/R	
6	VG75-03824-00	POTENTIOMETER, 1K, 60 DEGREES	2	
7	RP50-07015-00	HARNESS, TO CONTROL PANEL	1	
8	RP50-07016-00	HARNESS, SELECT SWITCH	1	
9	RP50-07024-00	HARNESS, TO PADDLE POT VR1	1	
10	RP50-07025-00	HARNESS, TO PADDLE POT VR2	1	
B1	VG20-06856-10	SCREW, SET, CUP POINT, M6 X 10, BO	4	(1) x 2, Conv Kit x 2
B2	VG20-06277-06	SCREW, SET, CUP POINT, W, M4 X 6, BO	2	(6) x 2
B3	VG20-03181-08	SCREW, PAN HD, PHIL, M4 X 8, SZ	1	Gnd x 1
B4	VG20-05524-06	WASHER, LOCK, STAR, INTERNAL, M4, SZ	1	Gnd x 1

ASSY, PADDLE (RP05-06969-00)



Z (REFERENCE DRAWING FOR INSTALLATION)

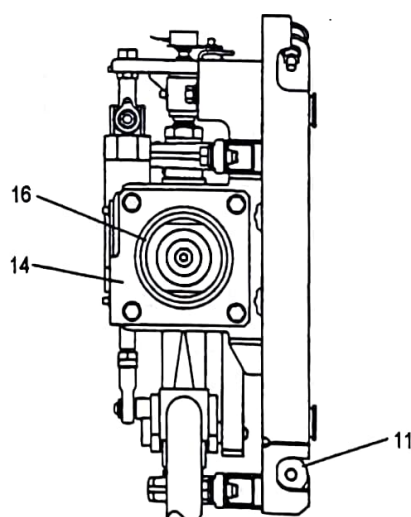
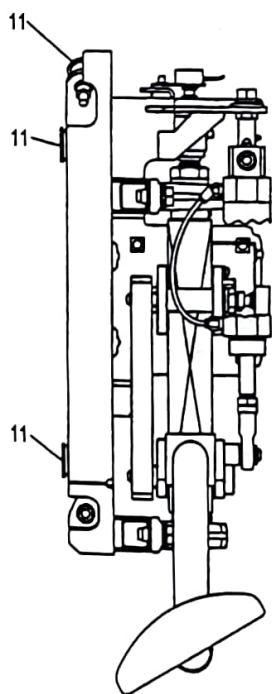
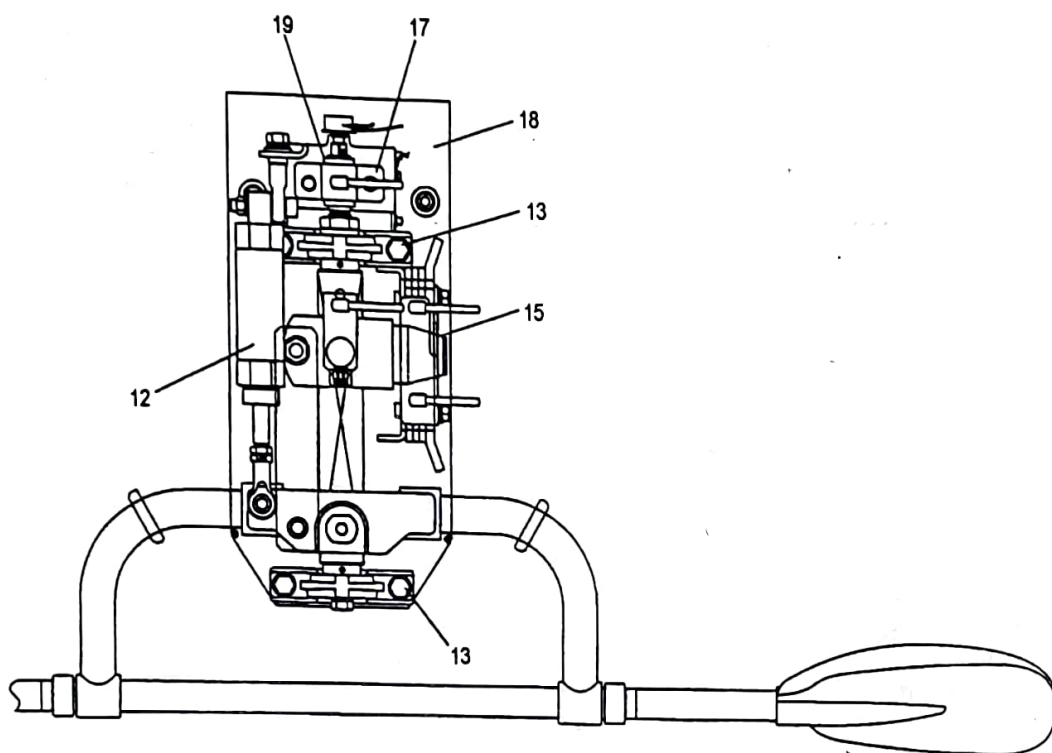
NOTES:

- 1) PART NO. 1 SHOULD BE PACKAGED SEPARATELY WHEN SHIPPED.
- 2) THE GROUND TERMINAL SHOULD BE INSERTED BETWEEN THE SCREW NO. B3 & NO. B4.
- 3) THE FIN SHOULD BE INSTALLED SO THAT THE HOLE FOR THE HEXSET SCREW & THE SPRING PIN LINE UP.

ASSY, PADDLE, RP05-06969-00

#	PART NO.	DESCRIPTION	QTY	NOTES
11		RUBBER, VIBRATION-PROOF	7	NL 106-078
12		AIR CYLINDER	1	NL 004-533
13		PILLOW UNIT	2	NL 103-076
14		COVER, GUIDE RUBBER	1	NL 670-531
15		GUIDE FOLLOWER	1	NL 670-532
16		GUIDE RUBBER	1	NL 670-533
17		BAND, ROSTA	1	NL 670-534
18		BASE	1	NL 670-535
19		ROSTA	1	NL 106-077 DR-S15x40

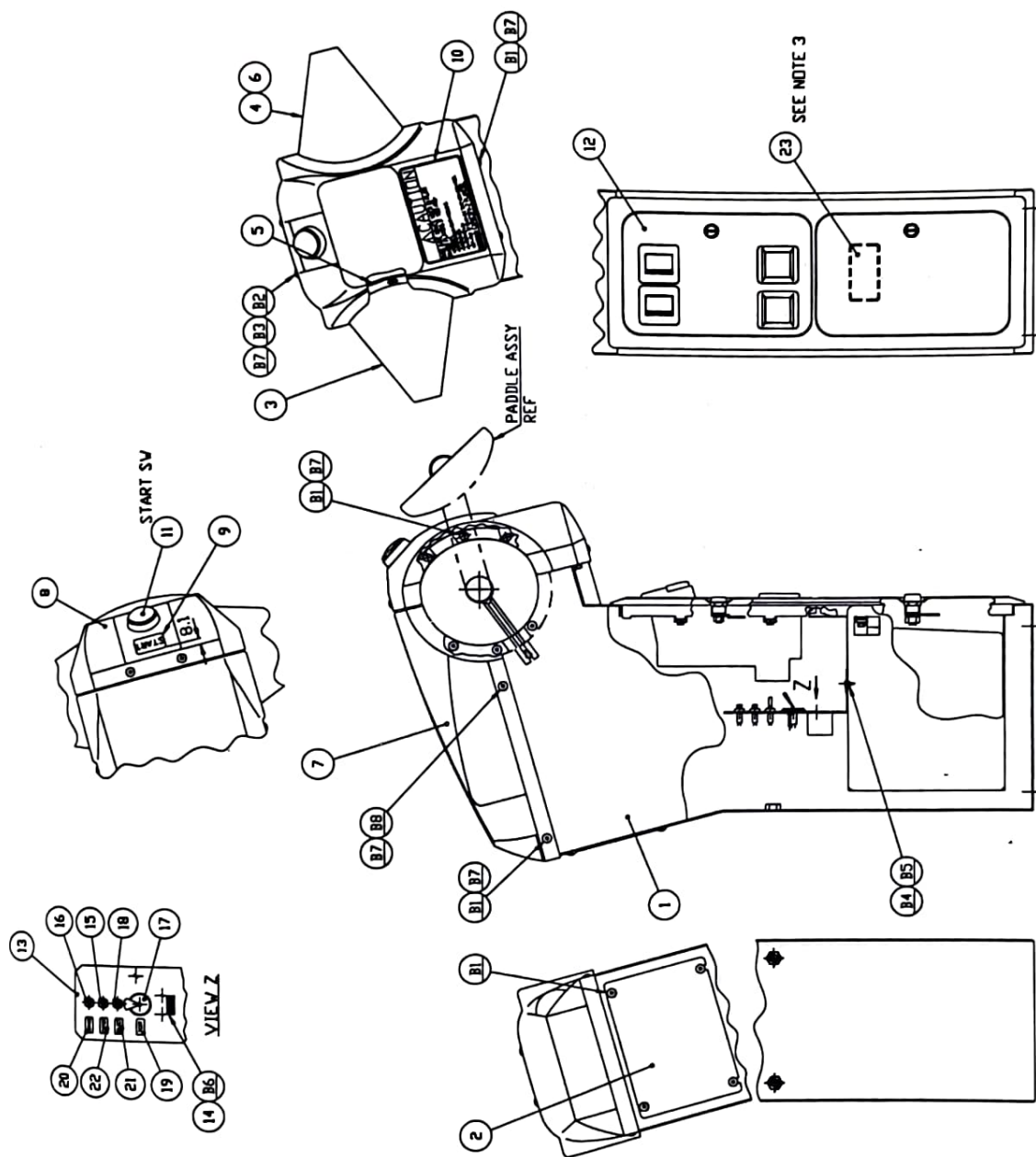
ASSY, PADDLE (RP05-06969-00)



ASSY, COIN, RP05-06970-00

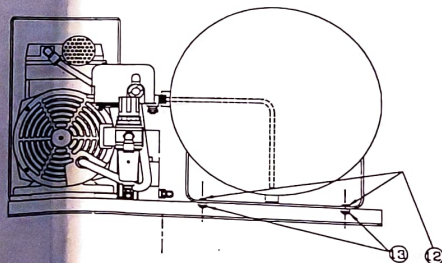
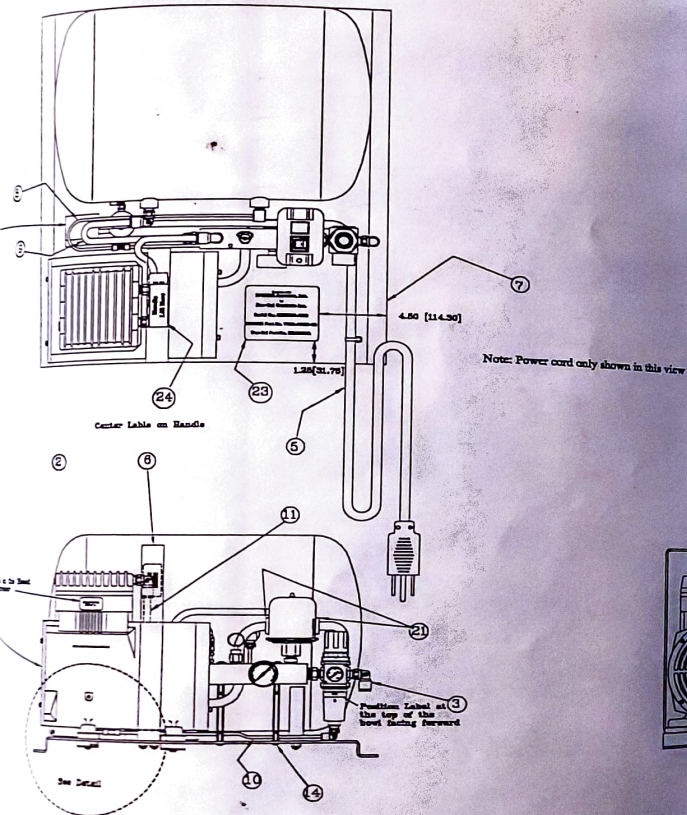
#	PART NO.	DESCRIPTION	QTY	NOTES
1	RP10-07374-00	BOX COIN	1	
2	RP10-07246-00	PLATE, REAR	1	
3	RP96-07247-00	L, OAR, BELLOWS	1	
		L, BELLOWS		
		L-BRACKET		
	RP16-07461-00	TAPE, DOUBLE-SIDED	A/R	
4	RP96-07247-01	R, OAR, BELLOWS	1	
		R, BELLOWS		
		R-BRACKET		
	RP16-07461-00	TAPE, DOUBLE-SIDED	A/R	
5	RP10-07248-00	L-BRACKET, BELLOWS, OAR	1	
	RP16-07461-00	TAPE, DOUBLE-SIDED	A/R	
6	RP10-07248-01	R-BRACKET, BELLOWS, OAR	1	
	RP16-07461-00	TAPE, DOUBLE-SIDED	A/R	
7	RP90-07249-00	A, PANEL, CONTROL	1	
8	RP90-07250-00	B, PANEL, CONTROL	1	
9	RP40-07176-00	DECAL, START	1	
10	RP40-07216-00	DECAL, RESTRICTION	1	
11	VG80-03923-03	SWITCH, PUSH, ILLUMINATION, GREEN	1	
12	VG83-04449-00	COIN DOOR, O/U BLK W/HARNESS	1	
13	VG10-06919-00	SERVICE PANEL, ONE PLAYER	1	
14	VG83-02094-00	COIN METER 12V	1	
15	GT53-02052-01	SWITCH MOMENTARY, "ENTER", BLACK	1	
16	GT53-02052-00	SWITCH MOMENTARY, "SERVICE", RED	1	
17	GT53-00756-00	SWITCH, TOGGLE, "TEST"	1	
18	VG53-06867-00	SWITCH, MINI-TOGGLE, "SELECT", ON-OFF-ON	1	
19	VG44-02702-00	LABEL, SERVICE PANEL, "TEST"	1	
20	VG44-02702-01	LABEL, SERVICE PANEL, "SERVICE"	1	
21	VG44-02702-07	LABEL, SERVICE PANEL "SELECT"	1	
22	VG44-02702-11	LABEL, SERVICE PANEL "ENTER"	1	
23	VG44-05848-00	LABEL, "EMPTY ... EVAPORATION TRAY"	1	
24	RP50-07014-00	HARNESS, CONTROL PANEL/SERVICE PANEL	1	
25	RP50-07019-00	HARNESS, TO SERVICE PANEL AND COIN DOOR	1	
26	RP50-07020-00	HARNESS, TO SERVICE PANEL	1	
B1	VG20-06308-12	SCREW, BTTN HD, TP TX, M5 X 12, BO	20	(2)X 4,(3)X 6,(4)X 6,(7)X 2,(8)X 2
B2	VG20-06308-20	SCREW, BTTN HD, TP TX, M5 X 20, BO	2	(8) X 2
B3	VG20-07475-00	WELLNUT, TREADED INSERT, RUBBER , 10S	2	(8) X 2
B4	VG20-02896-06	SCREW, PAN HD, #8-32X3/8, ZINC	2	(13) x 2
B5	VG20-02700-04	NUT KEP 8-32 STEEL ZINC	2	(13) x 2
B6	VG20-02894-04	SCREW, PAN HD, #4-40X1/4, ZINC	2	(14) x 2
B7	VG20-05522-07	WASHER, FLAT, M5, BO	20	(3)X 6,(4)X 6,(7)X 4,(8)X 4
B8	VG20-07476-08	SCREW, BTTN HD, TRP-PRF, #10 X 1/2, BO	2	(7) X 2

ASSY, COIN (RP05-06970-00)



NOTES:

1. AFTER ATTACHING PART No.1 (COIN BOX) TO MOTION BASE, ATTACH PART No.2 (REAR PLATE), PART No.12 (COIN DOOR), ETC.
2. ATTACH CONTROL PANEL A + B SO THAT THEY ARE PARALLEL.
3. ITEM 23 ("EMPTY COMPRESSOR EVAPORATION TRAY" LABEL) TO BE LOCATED ON THE INSIDE OF THE CASH BOX DOOR.



REVISIONS			
REV	DATE	BY	CHK

20	Rev-Cat	1	GCL8000	Pressure Label
20	Rev-Cat	1	GCL8000	Part Label
24	Rev-Cat	1	GCL8000	Handle Label
25	Rev-Cat	1	GCL8000	Serial No. Label
22	Legris	1	LP00143 H	Tubing Assembly 1/4" x 36"
21	Hexon	2	#1250	GCL4100H Strain Relief
20	Misc	4	GCD0000H	1/4" - 20 x 1 1/4" Wash. Screw
19	Misc	4	GCL4510H	1/4" Flat Washer
18	Total Tube	4	GCD0000H	1/4" - 20 x 1 1/4" Wash. Screw
17	Tech Prod.	4	SL624	GCD0000H Insulator - Ring
16	Tech Prod.	4	SL651	GCD0000H Insulator - Flange
15	Misc	2	GCL4000H	2/8" Flange Washer 30
14	Misc	4	GCL4000H	410-32 x 3/8" Wash. Screw
13	Misc	4	GCL4000H	1/4" - 20 Flange Nut
12	Misc	2	GCL4000H	1/4" - 20 x 3/8" Wash. Screw
11	Legris	1	L200000H	Tube Assembly 3/8" x 18"
10	Legris	1	L200000H	Tube Assembly 3/8" x 18"
9	Legris	1	L200000H	Tube Assembly 3/8" x 18"
8	Legris	1	L200000H	Tube Assembly 3/8" x 18"
7	Handle Mfr	1	GCD0000H	Base Plate
6	Handle Mfr	1	GCD0000H	Handle Assembly
5	NCC	1	RCD0000H	Power Cord Sub-Assembly
4	NCC	1	RCD0000H	Auto/Drive Sub-Assembly
3	NCC	1	RCD0000H	Manifold/Reg. Sub-Assembly
2	NCC	1	RCD0000H	Tank Sub-Assembly
1	NCC	1	RCD0000H	Compressor Sub-Assembly
0	Manufacturer	1	Rev-Cat	Rev-Cat

PROPRIETARY NAMCO 4000		APPROVALS NAME DATE		FINAL ASSEMBLY NAME DATE	
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WARRANTY

Seller warrants that its printed circuit boards and parts thereon are free from defects in materials and workmanship under normal use and service for a period of ninety (90) days from the date of shipment. Seller warrants that its video displays (in games supplied with video displays) are free from defects in material and workmanship under normal use and service for a period of thirty (30) days from the date of shipment. None of the Seller's other products or parts thereof are warranted. Seller's sole liability shall be, at its option, to repair, replace, or credit Buyer's account for such products which are returned to Seller during said warranty period, provided:

- a) Seller is promptly notified in writing upon discovery by Buyer that said products are defective.
- b) Such products are returned prepaid to Seller's plant; and
- c) Seller's examination of said products discloses to Seller's satisfaction that such alleged defects existed and were not caused by accident, misuse, neglect, alteration, improper repair, improper installation, or improper testing.

In no event shall Seller be liable for loss of profits, loss of use, incidental or consequential damages.

Except for any express warranty set forth in a written contract between Seller and Buyer which contract supersedes the terms herein, this warranty is in lieu of all other warranties expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose, and all other obligations or liabilities on the Seller's part, and it neither assumes nor authorizes any other person to assume for the Seller any other liabilities in connection with the sale of products by Seller.

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REV. A